# Knowledge Organiser

Year 10 Term 1 2024/25



# Contents

English Maths Science History Geography RE **Sport Science** Art Drama Dance Media **Business** MFL Health and Social Care Child Development Hospitality and Catering Photography

# English Year 10 Term 1 – Macbeth

#### You will learn how to:

- Identify information and ideas about characters, themes and events in the plot
- Explain what you have inferred from the text, recalling key scenes, • events and quotations from the text
- Discuss the development of characters in the text •
- Perform close textual analysis of the text, with reference to relevant • language, form and structure methods
- Make links between the text and its context, considering the • reactions of historical and modern audiences

#### Prior Learning Links:

- In Year 7, students read • Shakespeare's comedy play Much Ado About Nothing, introducing them to the conventions of Shakespeare's play
- In Year 8, students read • Shakespeare's comedy play A *Midsummer Night's Dream*, further developing their understanding of Shakespearian language, form and structure
- In Year 9, students read the GCSE Literature text An Inspector Calls, reinforcing their understanding of texts written for the theatre and the importance of social and historical context
- In Year 9, students read the GCSE • Literature text A Christmas Carol. developing a further understanding of how to respond to exam-style analytical questions about pre-1914 texts

#### **Future Learning Links:**

- Shakespeare's Macbeth • comprises one quarter of the English Literature GCSE texts and is worth approximately one quarter of the total marks - it will continue to be a focus in revision and afterschool tuition sessions throughout the rest of KS4
- In Year 11, students will • study for the English Language GCSE, in which the their analytical skills will continue to be a focus
  - Students' understanding of how language and structure methods are used in the Literature texts, such as *Macbeth*, will form the foundation of knowledge necessary for successful analysis in English Language



KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
<b>Jacobean</b> : An adjective used to describe anything relating to the reign of King James I of England. <i>Macbeth</i> was first performed during the Jacobean era, which existed from 1603 to 1625. Shakespeare's relationship with the king is an important contextual factor to audiences' understanding of the play.	<b>Context</b> : In English Literature, context refers to anything that might have contributed to the writing of a text, including its setting and the ideas it explores. For example, it is contextually relevant that <i>Macbeth</i> was first performed in England in 1606, despite being set in medieval Scotland; the Jacobean context is important to audiences' understanding of
Page 3 of 52	the events in the play.

<b>Monarch</b> : A sovereign head of state, especially a king, queen, or emperor. When <i>Macbeth</i> was first performed, King James I was the monarch of England and Scotland. The monarch at the beginning of the play is King Duncan of Scotland. After Macbeth kills Duncan, the noblemen appoint Macbeth to the throne in his place. At the end of	<b>Dialogue</b> : The exchange of spoken words between two or more characters in a text. In plays, lines of dialogue are preceded by the name of the person speaking.
the play, Malcolm, Duncan's son and rightful heir to the throne, takes his place as the new monarch of Scotland.	
<b>Thane</b> : The Scottish term for a governor of a particular region. In <i>Macbeth</i> , the thanes are noblemen that are also expected to fight on behalf of the king as warrior generals. Macbeth is the Thane of Glamis at the beginning of the play, but the Witches' first prophecy comes true when he becomes the Thane of Cawdor in Act 1 Scene 3. Macbeth rival, Macduff, is the Thane of Fife.	<b>Stage Directions</b> : An instruction in the text of a play indicating the movement, position, or tone of an actor, or the sound effects and lighting. Shakespeare's plays famously include very few stage directions, typically indicating only the entrance and exit of characters. Scenes in which more detailed stage directions appear tend to stand out as unusual.
<b>Prophecy</b> : a prediction of what will happen in the future. In <i>Macbeth</i> , the Witches make multiple prophecies about Macbeth, Banquo and the future of Scotland. All of the Witches' prophecies come true, but Shakespeare deliberately leaves it ambiguous whether they would have come true without the Witches' intervention. Would Macbeth have killed King Duncan if he hadn't have been told he would be king?	<b>Soliloquy</b> : An act of speaking one's thoughts aloud when by oneself or regardless of any hearers, especially by a character in a play.
<b>The Great Chain of Being</b> : The great chain of being is a hierarchical structure of all matter and life, thought by medieval Christianity to have been decreed by God.	<b>Poetic Meter</b> : The basic rhythmic structure of a verse or lines in verse. It is comprised of a particular number of syllables found in a single line of poetry, and can be grouped into sets of two or three beats, also known as feet. Feet are units of stressed and unstressed syllables.
<b>Patriarchy</b> : A social system in which positions of dominance and privilege are held by men. In <i>Macbeth</i> , Scotland is a patriarchy in which the mortals' positions of power are dominated by men. However, the relationship between Macbeth and his wife, Lady Macbeth, calls into question who is really in charge. Similarly, the most powerful characters in the play are the supernatural Witches and the goddess of witchcraft, Hecate, all of whom are female characters.	<b>lambic Pentameter</b> : The most common meter in Shakespeare's writing and in English poetry in general. Lines consist of five feet (pairs of syllables) called iambs, in which the first syllable is unstressed. As such, lines consist of ten syllables. In <i>Macbeth</i> , the noble characters usually speak in iambic pentameter.
<b>Superstition</b> : A widely held but irrational belief in supernatural influences, such as witchcraft.	<b>Trochaic Tetrameter</b> : Lines of poetic meter consisting of four feet called trochees, in which the first syllable is stressed. As such, lines consist of eight syllables. In <i>Macbeth</i> , the Witches and the goddess of witchcraft, Hecate, usually speak in trochaic tetrameter.
<b>Ambition</b> : a strong desire to do or achieve something. Ambition is Macbeth's fatal flaw.	<b>Blank verse</b> : Poetry written in a regular meter with unrhymed lines, usually in iambic pentameter. In <i>Macbeth,</i> the lower class mortal, such as the Porter and the

	Murderers, usually speak in blank verse. When a noble character speaks in blank verse, it tends to signify that they are behaving very unusually. For example, Lady Macbeth speaks in blank verse while sleepwalking in Act 5.
<b>Original Sin</b> : This phrase refers generally to the Christian belief in the universal nature of sin. Sin came to the world after Adam and Eve's fall from grace in the Garden of Eden, and Christians believe that ever since that time, all people are born sinful.	<b>Hamartia</b> : A fatal flaw leading to the downfall of a tragic hero or heroine. Macbeth's fatal flaw is his ambition.

#### 1. What was life like in the Jacobean era? Red Amber Green

#### What was the Jacobean era?

This is the period in history in which England was ruled by King James I. It existed from 1603 to 1625. King James was already King James VI of Scotland when he inherited the crown of England in 1603. His rule succeeds the Elizabethan era, in which England was ruled by Queen Elizabeth I.

#### Why is the Jacobean era relevant to Shakespeare and Macbeth?

Shakespeare is thought to have been first performed *Macbeth* in 1606, during the reign of King James I. King James was the patron of Shakespeare's acting company, the King's Men, and the play makes various clear references to the king and events from his reign, including the Gunpowder Plot of 1605.

#### What did people believe in during the Jacobean era?

The majority of people in the Jacobean era were Christians that believed God set out an order for everything in the universe. This was known as the Great Chain of Being. According to this belief, God created a social order in which everybody had a preordained position: God and His angels were positioned at the top, followed by humans, animals, plants and rocks. Amongst the mortals, the monarch was regarded as an extension of God because they had been chosen to rule. All other humans appeared after the monarch, with nobles second to the monarch and peasants at the bottom.

Jacobean people were also incredibly superstitious. In Christian countries like England, witches were thought to be agents of Satan that were capable of all manner of evil. It was believed that they could do the following: see into the future; manipulate the weather; change day into night; cause the deaths of their enemies; call up the dead; and make themselves invisible.

King James himself was especially superstitious. In 1597, he published a study of witchcraft and its evils called *Daemonologie (Demonology)*, and in 1604, he passed a statute making witchcraft punishable by death. Anything regarded as evidence of a relationship with evil spirits would have condemned a suspect to death by hanging, burning or drowning.

#### What were the relationships between men and women like in the Jacobean era?

Jacobean society was patriarchal, meaning that men controlled society and were considered to superior to women. Women were regarded as 'the weaker sex,' not just in terms of physical strength, but emotionally too. It was believed that women needed someone to look after them. If

they were married, their husband was expected to look after them. If they were single, then their father, brother or another male relative was expected to take care of them.

Even though there had been an unmarried woman on the throne in Elizabethan England, the roles of women in society were very limited. There were very clear expectations of men and women, and in general, men were expected to be provide for their families while women were housewives and mothers. A man was considered to be the head of a marriage and he had the legal right to chastise his wife. There was no divorce amongst the lower classes; marriage generally lasted as long as the couple both lived.

Outside of the home, women were not allowed to enter professions, such as law, medicine or politics, but they could work in domestic service as cooks, maids, etc. Women were also allowed to write works of literature, providing the subject was suitable for women: mainly translations or religious works.

#### How did the patriarchal society affect Shakespeare?

Women were not allowed to write for or act on the public stage. Acting was considered dishonourable for women. Consequently, in Shakespeare's plays, the roles of women were often played by young boys and featured few roles for women, simply because it was impractical to depict them on stage.

However, that didn't stop Shakespeare from creating excellent female characters; beyond the tragic protagonist, the most memorable characters in *Macbeth* are often Lady Macbeth and the Witches, all of whom are memorable for subverting the stereotypes that audiences expected of women.

#### 2. What happens in *Macbeth*?

Red Amber Green

#### What happens in Act 1?

At the beginning of the play, audiences are introduced to Macbeth and Banquo, two Scottish noblemen, shortly after the end of a violent, bloody conflict. As they walk together, they encounter three Witches on a heath.

The Witches give both men prophecies about their futures. One of the prophecies given to Macbeth comes true almost immediately, while the prophecy that Macbeth "shalt be king hereafter" sets his mind racing. Meanwhile, Banquo learns that there will be kings in his family line, though he will never be king.

Soon after, the monarch, King Duncan, announces that his son, Malcolm, will be the heir to the throne. Eager to be king but wary of what he might have to do to secure the throne, Macbeth write a letter to his wife, Lady Macbeth, informing of her the Witches' prophecies. Lady Macbeth is immediately excited by the news and calls upon evil spirits to give her the courage to manipulate her husband into committing murder.

When Macbeth arrives and announces that King Duncan will be spending the night in their castle, it is Lady Macbeth that reassures her husband and puts a plan in place to kill the king. She greets King Duncan when he arrives and spends the majority of the evening in his company, while Macbeth frets about the consequences of committing regicide. Ultimately, though, it is Lady Macbeth's intentions that win out; when she mocks his fears and questions his masculinity, Macbeth relents and agrees to go through with the murder.

#### What happens in Act 2?

In the first scene of Act 1, Macbeth begins to hallucinate and has visions of a "bloody dagger" pointing in the direction of King Duncan's chambers. Macbeth believes his conscience and doubts to be the cause of the vision, but nevertheless he presses forward, killing King Duncan in his sleep.

The murder of Duncan occurs offstage between scenes, with the second scene depicting an emotionally distressed Macbeth as he returns to his wife, hands still bloody and clutching the murder weapon. Lady Macbeth chastises her husband for bringing the daggers with him and takes them from him, planting them on the bodies of the sleeping guards outside Duncan's chambers.

The next morning, Duncan's body is discovered by a loyal nobleman, Macduff. He is horrified at the sight of the king's dead body and questions how it could have happened. Pretending to be equally enraged at the sight of the guards and their bloody daggers, Macbeth murders them immediately, before they can proclaim their innocence. Macduff seems suspicious of Macbeth, but is distracted by Lady Macbeth, who pretends to faint in shock at what has happened.

In the ensuing chaos and fearing for their lives, the king's sons, Malcolm and Donalbain, flee to England and Ireland, respectively. In their absence, Macbeth is announced king.

#### What happens in Act 3?

Banquo begins to suspect that Macbeth was involved in Duncan's murder, while Macbeth begins to fear that Banquo's family might displace him as king. Macbeth plans to have Banquo and his son, Fleance, murdered. Banquo is killed but Fleance escapes, never to be seen on stage again, but presumably alive elsewhere.

Macbeth is pleased to receive confirmation that Banquo is dead and attends a feast for his Scottish noblemen in high spirits; only Banquo and Macduff are absent. However, Macbeth's happiness is short-lived, as Banquo's Ghost appears to haunt him, sitting in his seat and silently judging him. The Ghost is invisible to everyone but Macbeth and his guests become concerned about his violent, insensible reaction.

Lady Macbeth attempts to reassure the nobles, but it is clear that their trust in Macbeth is waning. The couple disagree about what to do next and their relationship also appears to be in decline, with this scene marking the final time that they appear onstage together. The scene ends with Macbeth announcing that he will return to the Witches for further support.

A final scene involving the noblemen reveals that Macbeth is falling out of favour with those that attended the feast. They are suspicious of the deaths of Duncan and Banquo and refer to Macbeth as a "tyrant" for the first time. They also reveal that Macduff has gone to England to seek support from Malcolm, whom he believes to be the rightful ruler of Scotland.

#### What happens in Act 4?

Macbeth, filled with insecurity, returns to the Witches and asks them to predict his future once more. Having been criticised for the chaos they've caused by Hecate, the goddess of witchcraft, the Witches reveal Macbeth's future in a way which is purposefully designed to confuse him.

Their first three prophecies are delivered by ghostly apparitions, each of which takes on an appearance which foreshadows how their words will come true:

- The first apparition, taking the appearance of an armoured head, says, "Beware Macduff"
- The second apparition, in the image of a bloody child, says "none of woman born shall harm Macbeth"
- The third apparition, a crowned child holding a tree, says that Macbeth will never be defeated "until Great Birnam Wood" comes to "high Dunsinane hill"

Though reassured, Macbeth presses for more information, asking if Banquo's descendants will ever reign. The Witches advise against his question, but he demands that they answer. In response, a procession of eight kings appears following Banquo's Ghost, each one looking like the former, predicting that Banquo's family line will result in kings for generations to come. Macbeth is angry and terrified, but the Witches disappear, and a nobleman arrives with word that Macduff has fled to England. Privately, Macbeth vows to kill all of Macduff's family, including his wife and children.

In the next scene, Lady Macduff worries about why her husband has fled to England and teases her son that his father must be a traitor. A messenger advises Lady Macduff to flee with her family, warning that she is in danger, but she refuses to go, saying she has "done no harm". Within moments, murderers arrive seeking Macduff and, finding him gone, they kill both his wife and his son.

In England, Macduff tells Malcolm of how Scotland is suffering under the rule of Macbeth. Malcolm is suspicious of Macduff and tests his loyalty, but eventually reveals his commitment to his country and people. With support from his uncle, an English general named Old Siward, Malcolm is ready to march into Scotland and take back the throne from Macbeth.

The penultimate act ends with the arrival of another nobleman, who tells Macduff the terrible news about his wife and children. Malcolm comforts Macduff, advising him to "cure this deadly grief" by way of "great revenge" against Macbeth.

#### What happens in Act 5?

The final act reveals that Lady Macbeth's mental state is rapidly deteriorating: she appears on stage sleepwalking and talking aloud to herself, revealing secrets that only she and Macbeth have knowledge of. It is clear that she is consumed by her guilt, which is represented by a hallucination of blood that she cannot wash from her hands.

Meanwhile, Malcolm, backed by the English army and Macduff, approach Macbeth's castle. They cut down branches from the trees at Birnam Wood to disguise how big their army is, making the third apparition's prophecy come true.

At his lowest point and with death imminent, Macbeth hears from his armourer that Lady Macbeth is dead. He laments the brevity of life and reflects on the pointless nature of existence, vowing to die in battle if he must. Though he is unnerved by recent events, Macbeth is still confident that he cannot be killed by a man "of woman born", ordering that his armourer prepare him for battle, even as his men desert their posts and join Malcolm's army. Entering the battle, he is challenged by Old Siward's son, and Macbeth kills him.

Macduff enters the castle, seeking vengeance for the murder of his family. He fights Macbeth, revealing that he was "untimely ripped" from his mother's womb, and therefore not "of woman born." The Witches' prophecy comes true as Macduff kills Macbeth.

In the final scene, Macduff arrives with Macbeth's severed head. He hails Malcolm the new king, and Malcolm honours those who have fought and died alongside him. He invites them to see him crowned now that order has been restored to Scotland.

#### 3. How are the witches presented at the start of the play?

Red Amber Green

#### In what way are the Witches introduced?

The Witches (or "weird sisters" as they are also known) are the first characters to appear in Macbeth. At the beginning of Act 1, they meet during a storm and declare their intention to

encounter Macbeth after he has finished fighting a battle. The only stage directions are "Thunder and Lightning", but the pathetic fallacy is enough to set an ominous tone for the tragedy that is about to unfold.

#### What do the Witches looks like?

The stage directions do not reveal anything about the Witches' appearances, but Banquo's words in Act 1 Scene 3 make them sound like they look otherworldly and unnatural; he calls them "withered" and "wild" in their attire, noting that one has, "her choppy finger laying / Upon her skinny lips."

He also says, "That they look not like the inhabitants o' th' Earth," and that they have the appearance of "women... yet [their] beards forbid [him] to interpret that [they] are so."

No matter how a director or actor chooses to present the Witches, it is clear that they are supposed to have a startling appearance that marks them out as being different to ordinary people.

#### What do the Witches sound like?

The Witches speak in an unusual rhythm called trochaic tetrameter. This is a rapid meter of poetry consisting of eight syllables per line, two fewer than the traditional ten syllables of most Shakespearian characters. The meter of their dialogue is trochaic, rather than iambic, because the first syllable in each pair of syllables is stressed instead of the second. Again, this makes the Witches stand out in comparison to the mortal characters, drawing attention to the differences between them and the noble people of Scotland.

Much of the Witches' dialogue rhymes and the Witches often speak in rhyming couplets or triplets. Sometimes, one Witches' dialogue will rhyme with the lines of another, as if to suggest that they can read one another's minds or communicate supernaturally. Other times, the Witches will speak as one, as if chanting a magical spell, as they do in the final rhyming couplet of this scene:

Fair is foul, and foul is fair; Hover through the fog and filthy air.

This couplet is important for another reason: the phrase, "Fair is foul, and foul is fair," appears to be contradictory at first, and is intentionally confusing. Audiences are supposed to find the Witches unsettling, and their language serves to reinforce this.

#### 4. How are we introduced to Macbeth's character?

Amber Green

Red

#### What do people think of Macbeth at the beginning of the play?

Although his first words do not appear to until Act 1 Scene 3, audiences get their first impression of Macbeth via a report from a wounded soldier, the Bloody Captain. The Captain was present at a battle against allied revels led by the traitorous Macdonwald and the Thane of Cawdor, as were Macbeth and Banquo, whom the Captain speaks about with effusive praise.

Before the audience even meets Macbeth, their expectations are therefore set by the Captain's descriptions:

- "brave Macbeth well he deserves that name"
- "with his brandish'd steel, / Which smoked with bloody execution, / [He] carved out his passage"

- "[He] ne'er shook hands, nor bade farewell to him, / Till he unseam'd him from the nave to the chaps / And fix'd his head upon our battlements"
- "I must report they were / As cannons overcharged with double cracks"
- "they doubly redoubled strokes upon the foe"
- "they meant to bathe in reeking wounds"

The above descriptions are overtly violent and bloody, yet the Captain praises them for their efforts, demonstrating the characteristics that were valued in men at the time.

#### What does King Duncan think of Macbeth?

In response to the Captain's words, King Duncan praises Macbeth and Banquo for their bravery, going so far as to award Macbeth with the title of his defeated foe, the Thane of Cawdor:

- "O valiant cousin, worthy gentleman!"
- "No more that Thane of Cawdor shall deceive... Go, pronounce his present death, / And with his former title greet Macbeth."
- "What he hath lost, noble Macbeth hath won."

#### What might audiences think of Macbeth?

Though the characters in Act 1 Scene 2 have great respect for Macbeth and his accomplishments, their praise for Macbeth's extremely violent behaviour are likely to make modern audiences uncomfortable; even a Jacobean audience might have regarded Macbeth's actions on the battlefield as barbaric.

Most importantly, this scene emphasises that Macbeth is a brilliant *warrior*, but he does not necessarily have traits befitting a king. When he faces a problem, Macbeth attacks it head-on, murdering whoever is in his path to achieve success. To what extent will Macbeth act the same way when he becomes king?

5. What do we learn about Macbeth and Banquo's characters from **Red Amber Green** their reaction to the witches?

#### What is Banquo's reaction to the Witches?

Banquo is the first to speak to the Witches, asking "What are these... That look not like th' inhabitants o' th' Earth / And yet are on 't?" Banquo also asks about their appearance, despite recognising that their true nature may be unknowable: "Live you? Or are you aught / That man may question?"

Throughout their conversation, Banquo continues to question whether the Witches are really there. After the Witches have prophesised that Macbeth will be king, Banquo asks, 'l' th' name of truth, / Are you fantastical, or that indeed / Which outwardly you show?" When they disappear, he asks Macbeth if they have "eaten on the insane root", barely believing what has happened.

Despite his doubts, Banquo still asks the Witches about his future, saying the following:

To me you speak not. If you can look into the seeds of time And say which grain will grow and which will not, Speak, then, to me, who neither beg nor fear Your favours nor your hate. In effect, Banquo is curious but cautious. He recognises that the Witches are potentially in league with the "devil" and he refers to them as "instruments of darkness", presuming their "truths" to be "honest trifles" intended to "win [them] to [their] harm."

#### What is Macbeth's reaction to the Witches?

In contrast to Banquo, Macbeth speaks in terse commands throughout his interactions with the Witches, initially demanding that they "Speak if [they] can" and asking them directly, "What are you?"

In response to their prophecies that follow, Macbeth appears to "start and seem to fear" before becoming "rapt withal" – almost immediately, Macbeth is captivated by the prospect of being king, and he is willing to overlook the Witches' intentions out of desire for what they predict.

By the time the Witches have predicted Banquo's future, Macbeth has composed himself well enough to demand more of the Witches: "Stay, you imperfect speakers. Tell me more." He goes on to ask how he could possibly become king, arguing that it "Stands not within the prospect of belief." Rather than question how they could have knowledge of the future or for what purpose they might share it with him, he demands that the Witches "Say from whence / [They] owe this strange intelligence."

When they ignore his demands and disappear, Macbeth seems dismayed, crying out, "Would they had stayed!" Where Banquo is wary, Macbeth is eager.

#### How does Macbeth behave when presenting himself to King Duncan?

When Macbeth approaches the king, he says the following amongst an audience of noblemen and attendants:

The service and the loyalty I owe, In doing it, pays itself. Your highness' part Is to receive our duties; and our duties Are to your throne and state children and servants, Which do but what they should, by doing every thing Safe toward your love and honour.

Publicly, Macbeth is attempting to present himself a loyal servant of Duncan. He claims that he requires no reward for his "service" and that he acts for the king out of "love and honour." Macbeth seeks to present himself as a dutiful and honourable servant.

#### How does Macbeth behave in private?

In contrast, Macbeth speaks very differently when alone:

The Prince of Cumberland! that is a step On which I must fall down, or else o'erleap, For in my way it lies. Stars, hide your fires; Let not light see my black and deep desires: The eye wink at the hand; yet let that be, Which the eye fears, when it is done, to see.

In this dialogue, spoken in an aside for only the audience to hear, Macbeth acknowledges that Malcolm, "The Prince of Cumberland", is a "step" he must "o'erleap" in order to be king. Macbeth

is now convinced that he can only become king by killing Duncan and supplanting Malcolm, the rightful heir to the throne.

Though he is yet to say it explicitly, Macbeth commands the "Stars" to "hide [their] fires", saying "Let not light see my black and deep desires". This couplet demonstrates that Macbeth's deception and serves to acknowledge that he knows his own "desires" to be immoral.

#### 7. How is Lady Macbeth introduced to us?

Red Amber Green

#### What does Lady Macbeth reveal in her first soliloquy?

When Lady Macbeth is introduced in Act 1 Scene 5, she is reading aloud a letter from husband about the Witches' prophecies and their partial fulfilment. It is clear that he trusts her, confiding in her about what has happened and implying that regicide is the only way for him to be king.

As soon as she begins to speak her own mind, however, it is clear that she is conflicted about what Macbeth will need to do to – she fears that he lacks the ruthlessness necessary for coldblooded murder.

Lady Macbeth's thoughts are communicated in a famous soliloquy, which is included in full below:

Glamis thou art. and Cawdor, and shalt be What thou art promised. Yet do I fear thy nature; It is too full o' th' milk of human kindness To catch the nearest way. Thou wouldst be great. Art not without ambition, but without The illness should attend it. What thou wouldst highly, That wouldst thou holily; wouldst not play false And yet wouldst wrongly win. Thou 'dst have, great Glamis, That which cries "Thus thou must do," if thou have it, And that which rather thou dost fear to do, Than wishest should be undone. Hie thee hither, That I may pour my spirits in thine ear And chastise with the valor of my tongue All that impedes thee from the golden round, Which fate and metaphysical aid doth seem To have thee crowned withal.

Lady Macbeth's reveals that she has a clear, if critical, understanding of her husband's character: she acknowledges his "ambition" but thinks he lacks the "illness" necessary to act on it; she knows he would gladly "win" the throne, but his pride will not allow him to "play false" in order to secure it. She knows he will need to be manipulated into killing king and hopes that he will hurry to her quickly, so that she "may pour [her] spirits in [his] ear / And chastise with the valour of [her] tongue". She intends to sway him firmly towards her line of thinking and will criticise his character if necessary.

Interestingly, Lady Macbeth appears to associate moral goodness with stereotypical feminine symbolism, describing Macbeth as being "too full o' th' milk of human kindness". This gendered description of "kindness" reveals how Jacobeans expected men and women to behave, while also subverting how women were usually depicted. In short, Lady Macbeth embodies stereotypically masculine traits more clearly than her husband.

#### What does Lady Macbeth reveal in her second soliloquy?

After a messenger informs her of the imminent arrival of Duncan, Lady Macbeth says the following:

The raven himself is hoarse That croaks the fatal entrance of Duncan Under my battlements. Come, you spirits That tend on mortal thoughts, unsex me here, And fill me from the crown to the toe top-full Of direst cruelty. Make thick my blood. Stop up th' access and passage to remorse, That no compunctious visitings of nature Shake my fell purpose, nor keep peace between Th' effect and it. Come to my woman's breasts And take my milk for gall, you murd'ring ministers, Wherever in your sightless substances You wait on nature's mischief. Come, thick night, And pall thee in the dunnest smoke of hell, That my keen knife see not the wound it makes, Nor heaven peep through the blanket of the dark To cry "Hold, hold!"

In her second soliloquy, Lady Macbeth's dialogue is even more gendered than before: she calls on evil "spirits" to "unsex" her and replace the "milk" of her "woman's breasts" with poison. Yet again, her language suggests that her femininity, represented by breasts and milk, impedes her from performing stereotypically masculine acts of violence and cruelty; she believes she must act like a man – or at least, less like a woman – in order to commit murder.

This soliloquy also draws attention to the similarities shared by Lady Macbeth and the Witches. This is most evident in her calling on "spirits" and "murdering ministers" to aid her in her plot, but also in the way that she hides her malicious intent behind a feminine outward appearance.

Finally, her command to the "thick night" is reminiscent of Macbeth's final lines in the previous scene. Where he called on the night to hide his "black and deep desires", she calls on the blackest "smoke of hell", desperate for heaven" not to "peep through the blanket of the dark". Just like Macbeth, she knows that her desires are immoral and seeks to hide them God.

8. Why doesn't Macbeth want to murder Duncan?	Red	Amber	Green
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#### What doubts does Macbeth express in his final soliloquy of Act 1?

At the beginning of Act 1 Scene 7, Macbeth stands alone, worrying about his fate in the afterlife if he becomes a murderer. The majority of his soliloquy is included below:

But in these cases We still have judgment here, that we but teach Bloody instructions, which, being taught, return To plague th' inventor. This even-handed justice Commends th' ingredience of our poisoned chalice To our own lips. He's here in double trust: First, as I am his kinsman and his subject, Strong both against the deed; then, as his host, Who should against his murderer shut the door, Not bear the knife myself. Besides, this Duncan Hath borne his faculties so meek, hath been So clear in his great office, that his virtues Will plead like angels, trumpet-tongued, against The deep damnation of his taking-off; And pity, like a naked newborn babe Striding the blast, or heaven's cherubin horsed Upon the sightless couriers of the air, Shall blow the horrid deed in every eye, That tears shall drown the wind. I have no spur To prick the sides of my intent, but only Vaulting ambition, which o'erleaps itself And falls on th' other—

Throughout this monologue, Macbeth lists many reasons for not killing the king, including: those that commit murder are often murdered themselves; the king trusts him; he is related to the king; he is the king's subject; he is the king's host; the king is a virtuous man; his murderer would face "deep damnation" in hell; and the people of Scotland will cry to the extent "That tears shall drown the wind."

In contrast, Macbeth acknowledges a single reason for killing the king: "ambition".

When his reasons for killing the king are compared against his reasons for *not* killing the king, it becomes obvious that Macbeth would prefer to "proceed no further in this business." Lady Macbeth, however, has other ideas...

#### How does Lady Macbeth react when Macbeth refuses to go through with the murder?

When Macbeth tries to put a stop to their plot, Lady Macbeth mocks her husband for his fears and speaks to him in a manner which many Jacobeans would have been surprised to see. Some of her most cutting insults and criticisms are listed below:

- "Was the hope drunk / Wherein you dressed yourself?"
- "From this time / Such I account thy love."
- "Wouldst thou... live a coward in thine own esteem... Like the poor cat i' th' adage?"
- "What beast was 't then, / That made you break this enterprise to me?"
- "When you durst do it, then you were a man."
- "I have given suck, and know / How tender 'tis to love the babe that milks me. / I would, while it was smiling in my face, / Have... dashed the brains out, had I so sworn as you / Have done to this."

As is usual with Lady Macbeth, she speaks in gendered terms about what it means to be a "man", using Macbeth's own fragile sense of masculinity to manipulate him into doing what she wants. It is clear that Macbeth believes a man should be brave, and that by breaking his promise to Lady Macbeth, she will regard him as a "coward". She even claims that she would murder her own child rather than break a promise to him, where she in his position. Yet again, Lady Macbeth's language draws attention to the way that Jacobean men and women expected each other to behave; in leaning on the societal pressures that dictate how men *should* behave, Lady Macbeth is able to make her husband commit himself to the deed.

Red

Amber

Green

#### 9. How is Macbeth's internal conflict presented?

Macbeth's internal conflict is demonstrated in another famous soliloquy. This time, as he approaches Duncan's chambers alone at night, he sees a vision of a bloody dagger:

Is this a dagger which I see before me, The handle toward my hand? Come, let me clutch thee. I have thee not, and yet I see thee still. Art thou not, fatal vision, sensible To feeling as to sight? or art thou but A dagger of the mind, a false creation, Proceeding from the heat-oppressed brain? I see thee yet, in form as palpable As this which now I draw. Thou marshall'st me the way that I was going; And such an instrument I was to use. Mine eyes are made the fools o' the other senses, Or else worth all the rest; I see thee still, And on thy blade and dudgeon gouts of blood, Which was not so before. There's no such thing: It is the bloody business which informs Thus to mine eyes.

Throughout the monologue above, Macbeth questions his own senses, wondering why he cannot "clutch" the dagger despite seeing it. He wonders if the dagger is "sensible / To feeling as to sight", but finds that he cannot touch it. Eventually, he disregards the vision, saying that his "eyes are made the fools o' the other senses." He dismisses it as "no such thing", presuming it to be a hallucination ("A dagger of the mind, a false creation") caused by stress and doubt.

There are a number of interesting details throughout this scene, not the least of which is that Macbeth's sense will fail him repeatedly following his murder of the king – this is not the last time he will see something that no one else can see, for example.

However, most revealing of all are the references to the positioning of the dagger and the way that it changes throughout the scene. Initially, it appears with "The handle toward [his] hand", suggesting a part of him seeks to wish out and grab it. Later, he says that the dagger "marshall'st [him] the way that [he] was going." This personification of the dagger seems to imply that it is compelling him onwards, in the direction of Duncan. Finally, Macbeth begins to see "gouts of blood" appear on the "blade and dudgeon" (handle), implying that he is getting closer to murdering Duncan the longer that he looks at it. Ultimately, the murder of Duncan disturbs Macbeth but he is not so conflicted as to not go through with the murder.

Green

#### 10. How do Macbeth and Lady Macbeth act after the murder? Red Amber

#### How does Macbeth act after the murder?

When Macbeth returns from Duncan's chambers, he is horrified by what he has done. He reports having killed Duncan, but is fearful of divine punishment because of the unusual circumstances that immediately followed:

- When he heard Duncan's son, Malcolm and Donalbain, praying, Macbeth could not say "Amen" to himself.
- When he killed Duncan, Macbeth heard a voice cry "Sleep no more!"

In the latter half of this scene, the brave Macbeth of Act 1 is nowhere to be found. He refuses to return to Duncan's chambers in order to frame the guards with the bloody daggers, admitting he is paralysed with fear: "I am afraid to think what I have done. Look on 't again I dare not."

When Lady Macbeth leaves to plant the daggers herself, Macbeth laments his actions and cries out at his own bloody hands, believing that they will never be clean of blood again:

What hands are here! Ha, they pluck out mine eyes. Will all great Neptune's ocean wash this blood The multitudinous seas incarnadine, Making the green one red.

#### How does Lady Macbeth act after the murder?

As is usual of their dynamic up until this point in the play, Lady Macbeth behaves in the opposite way to her husband, criticising him for his fears and taking charge of the situation:

Infirm of purpose! Give me the daggers. The sleeping and the dead Are but as pictures. 'Tis the eye of childhood That fears a painted devil.

Upon her return, Lady Macbeth belittles her husband, saying that her hands are also bloodied, but that feel "shame" at the sight of his cowardice. She also speaks a fateful line when washing Duncan's blood from her hands: "A little water clears us of this deed." Her flippant dismissal of the blood on her hands is an ironic foreshadowing of how her own guilt will manifest itself in Act 5.

#### 11. Why is the Porter significant?

Red Amber Green

#### Who is the Porter?

The drunken Porter is a comedic character that only appears at the beginning of Act 2 Scene 3. He appears briefly, speaking largely to himself before exchanging a few witty remarks with Macduff, who arrives at the castle early in the morning, intending to meet with King Duncan.

#### What does the Porter represent?

Though his formal role is the gate-keeper of Macbeth's castle, he compares himself to the "porter of hell gate" and makes jokes about the various kinds of sinners that go to hell. Though he is of little importance to the ongoing plot, the Porter's lines are important in that they allude to the wider goings on in the story: if the Porter is the gate-keeper of hell, then Macbeth is the metaphorical devil and Macduff is the avenging angel.

Furthermore, the Porter is the first lower class mortal to appear in the play – so far, all the other human characters have been nobles. As such, he speaks in prose rather than verse, signalling his lack of education and sophistication in contrast to the main characters of the story. However, this does not mean that the Porter is unintelligent. On the contrary, the Porter speaks the bare truth in a way that few characters do, acknowledging base truths about life that the nobles sometimes fail to recognise. He is a representation of the common man and his views, comedic as they are, are indicative of the fact that lower class people often see the state of things more clearly than their social superiors.

#### What is the purpose of the Porter at this point in the story?

To the audience, privy to the Macbeths' murder of King Duncan, these lines also provide an important moment of comic relief at the most tragic low point of the play. His conversation with Macduff is filled with particularly rude jokes about the effects that alcohol has on men, including references to their desire to sleep, urinate and have sex when drunk.

Though the Porter and his jokes seem a little out of place, it is important to recognise that without him, the play would remain relentless grim up to and including this scene.

12. How is Macduff's character portrayed?	Red	Amber	Green
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#### Why does Macduff arrive in Act 2 Scene 3?

Though he appeared in the background of earlier scenes, it is not until Act 2 Scene 3 that Macduff is introduced as a major character. The fact that Macduff began knocking on the castle door immediately after Duncan's murder is no coincidence: as the Porter's dialogue alludes, Macbeth's castle is like hell, making Macbeth the devil; in contrast, Macduff is a representation of moral goodness, order and stability – the angel to Macbeth's devil. He arrives at this point precisely because there needs to be a character that can come into conflict with Macbeth.

#### How does Macduff respond to Duncan's murder?

Despite his stern and curt dialogue when first greeting Macbeth, Macduff expresses incredible emotion upon discovering the body of King Duncan:

O horror, horror, horror! Tongue nor heart cannot conceive nor name thee! ... Confusion now hath made his masterpiece. Most sacrilegious murder hath broke ope The Lord's anointed temple and stole thence The life o' th' building.

The repetition of "horror" reinforces how shocked and emotionally distraught Macduff is at the sight of the king. Neither his "Tongue nor heart" can conceive or even put to into words his grief. His dialogue is littered with religious connotations and references to the destruction of an "anointed temple". To Macduff, killing the king is second only to the desecration of a holy church, if not of equal significance; the murder of Duncan has broken the Great of Chain of Being, and the world will be thrown into chaos as a result.

As soon as he regains his composure, note that Macduff raises the alarm and wakes up the rest of the castle. He is quick to act in much the same way that Macbeth was at the beginning of Act 1, only Macduff continues to act in service to the rightful king, while Macbeth acts out of selfish self-interest.

#### How does Macduff respond to Macbeth?

When Macbeth returns from Duncan's chamber, having killed the king's guards out of fake "fury", it is Macduff that questions Macbeth's motivations: "Wherefore did you so?" To Macduff, Macbeth's response of uncontrollable "fury" seems absurd and fails to align with the way that Macduff expects men to behave: rational, logical and in control of their emotions.

Though they exchange few words between now and the next couple of acts, Macbeth's murder of the guards appears to be enough for Macduff to have suspicions. When a fellow nobleman discusses the murder with him in the next scene, Macduff refers to "Those that Macbeth hath slain" as the most likely culprits – but he does not seem convinced. Before the end of Act 2, he announces that he will go to his castle in Fife rather than to Macbeth's coronation, and he also fails to attend Macbeth's feast in Act 3, choosing instead to seek support from Malcolm in England.

#### How does Macduff respond to Lady Macbeth?

An oft overlooked exchange between Macduff and Lady Macbeth reveals that Macduff is just as susceptible to the gender stereotypes of the Jacobean period as anyone else. This is most evident when he calls Lady Macbeth "O gentle lady" and tells her:

'Tis not for you to hear what I can speak. The repetition in a woman's ear Page 17 of 52

#### Would murder as it fell.

Lady Macbeth being directly responsible for the murder they're discussing makes his words deeply ironic, and serves to highlight Macduff's character flaw: like Duncan before him, he is too trusting, especially of women. Macduff believes in the stereotypes about Jacobean women and is easily fooled into thinking that Lady Macbeth has no role in the crime.

This is reinforced even further when Lady Macbeth pretends to faint in order to cause a distraction; it is Macduff that tells others to "Look to the lady", again believing she needs the support of men. Macduff's perception of women will ultimately be tested in Act 4, when Macbeth orders the murders of his wife and children. Like other characters in the play, Macduff learns a valuable lesson about underestimating the significance of women.

#### 13. How does Duncan's murder affect the Great Chain of Being? Red Amber Green

#### What does Lennox report as having happen on the night of Duncan's murder?

Lennox is a nobleman of some importance that appears sporadically throughout the play – when Shakespeare needs to communicate the perspective of the noble classes, it is typically Lennox that expresses the view.

As such, Lennox is the nobleman to accompany Macduff into Macbeth's castle at beginning of Act 2 Scene 3. It is during this scene, prior to the discovery of Macduff's murder, in which Lennox says the following:

The night has been unruly. Where we lay, Our chimneys were blown down and, as they say, Lamentings heard i' th' air, strange screams of death, And prophesying, with accents terrible, Of dire combustion and confused events New hatched to th' woeful time. The obscure bird Clamored the livelong night. Some say the Earth Was feverous and did shake.

Lennox's lines here reveal what Jacobeans expected would happen if the Great Chain of Being were to be broken: the natural world has been thrown into disorder, a reflection of the chaos brought about by Macbeth's murder of the king. The "unruly" night appears to refer to a storm, the pathetic fallacy recalling the introduction of the Witches in their first appearance from Act 1. Meanwhile, there appears to have been an earthquake, presumably coinciding with the death of Duncan. It is unclear what the "Lamentings heard i' th' air" might have been, but it is easier to imagine them being supernatural in origin.

# What do Ross and the Old Man discuss having happened on the night of Duncan's murder?

Ross is another nobleman that fulfils the same kind of role as Lennox. At the end of Act 2, in the scene immediately preceding the coronation of Macbeth, Ross meets with an Old Man and exchanges accounts of recent unnatural happenings. Both claim to have seen or heard unusual goings on since the night of Duncan's murder:

- The Old Man says that "this sore night / Hath trifled former knowings," calling it the most "dreadful" and "strange" night of his long lifetime.
- In response, Ross says that "By th' clock 'tis day, / And yet dark night strangles the traveling lamp." Ross means that it is dark during the day, recalling the earlier lines of <u>PMacbeth</u> and Lady Macbeth, both of whom called on the night to cover up their crimes.

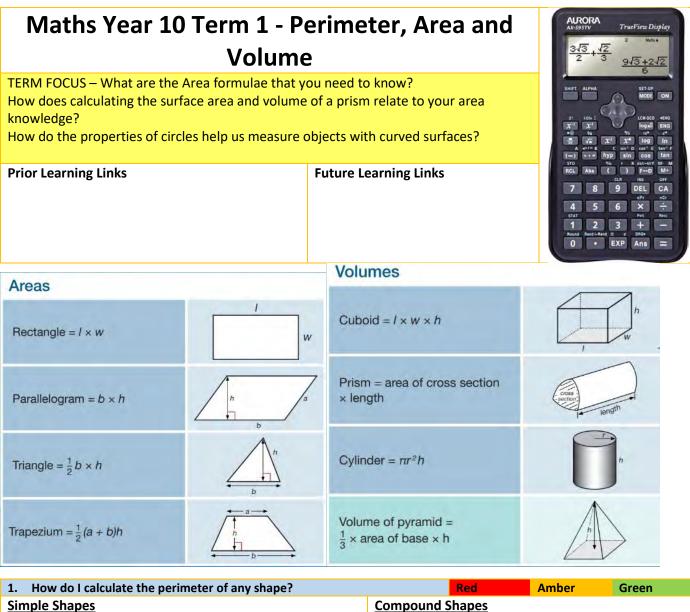
- The Old Man draws a direct line between the supernatural events they're experiencing and the death of Duncan: "Tis unnatural, / Even like the deed that's done." This makes it clear that most people, whom the Old Man appears to represent, believe that breakingnthe Great Chain of Being is directly responsible for what they are witnessing.
- Both the Old Man and Ross describe unusual events involving animals, including "A falcon" being "killed" by a "mousing owl" and references to "Duncan's horses [turning] wild in nature". The Old Man even says, "Tis said they eat each other"!

#### Has the world really been thrown into chaos and disorder?

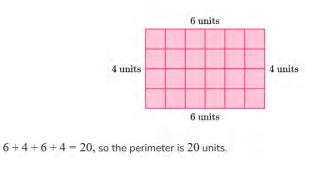
Though it is true that Jacobean audiences really did believe in the Great Chain of Being, the people of Shakespeare's time would also have understood that the events reported by these characters are a metaphor for the state of Scotland in the wake of Duncan's death. Without the rightful ruler on the throne and with a new king taking his plac, the country would have been in turmoil and panic amongst the lower classes wold have been rife. The earth might not have really shaken, but society *would* have been thrown into chaos and disorder.

To take this idea further, consider how the events described have escalated between scenes: Lennox makes references to terrible weather and a potential earthquake, but by the time Ross and the Old Man are speaking, they say that the sun has been covered by darkness and that the king's horses are eating other! To what extent are rumours and gossip, especially amongst the uneducated lower classes (represented by the Old Man), affecting what people think is happening? This is especially possible when you pay close attention to how much of what they report is based on hearsay. Perhaps Ross is even leaning into the beliefs of the common people and making fun of what people believe.

HOME LEARNING TASKS	
Task Description	Done?
Watch videos about <i>Macbeth</i> on GCSE Pod. Your teacher will direct you to suitable videos.	
Revise key details about characters, themes and plot.	
Revise key quotations from the text. You could begin by annotating your quotations with notes about language and/or structure methods.	
Answer exam-style questions. Your teacher will direct you to suitable questions.	
Revise the content and context of the play using your Knowledge Organiser. Your teacher will direct you to suitable sections of the Knowledge Organiser in preparation for recall quizzes in class.	

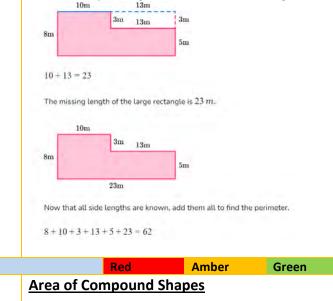


To find the perimeter of a shape, you add up the lengths of all the sides.



#### **Compound Shapes**

- 1. Split the compound shape into easier ones like triangles or squares.
- 2. Find the outside length of these smaller shapes.
- 3. Put together the lengths of these small shapes to get the total outside length



1. Write down the formula. Page 20 of 52

Area of basic shapes

2. How do I calculate the area of any shape?

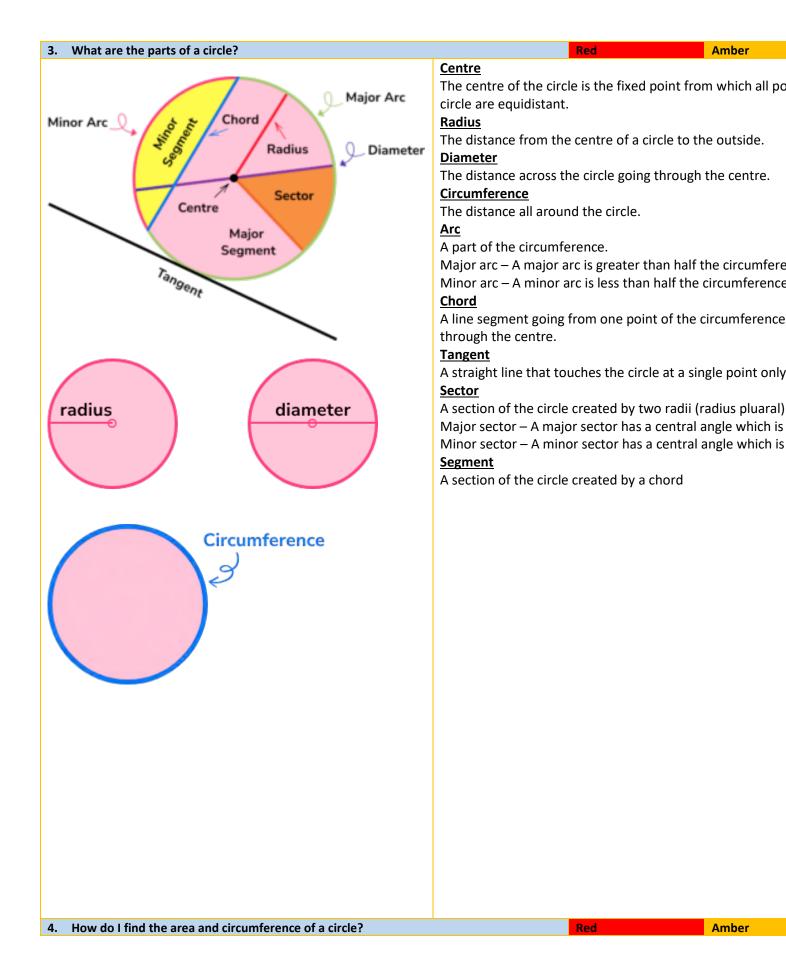
- 2. Substitute the values into the formula.
- 3. Complete the calculation.
- 4. Write the answer, including the units.

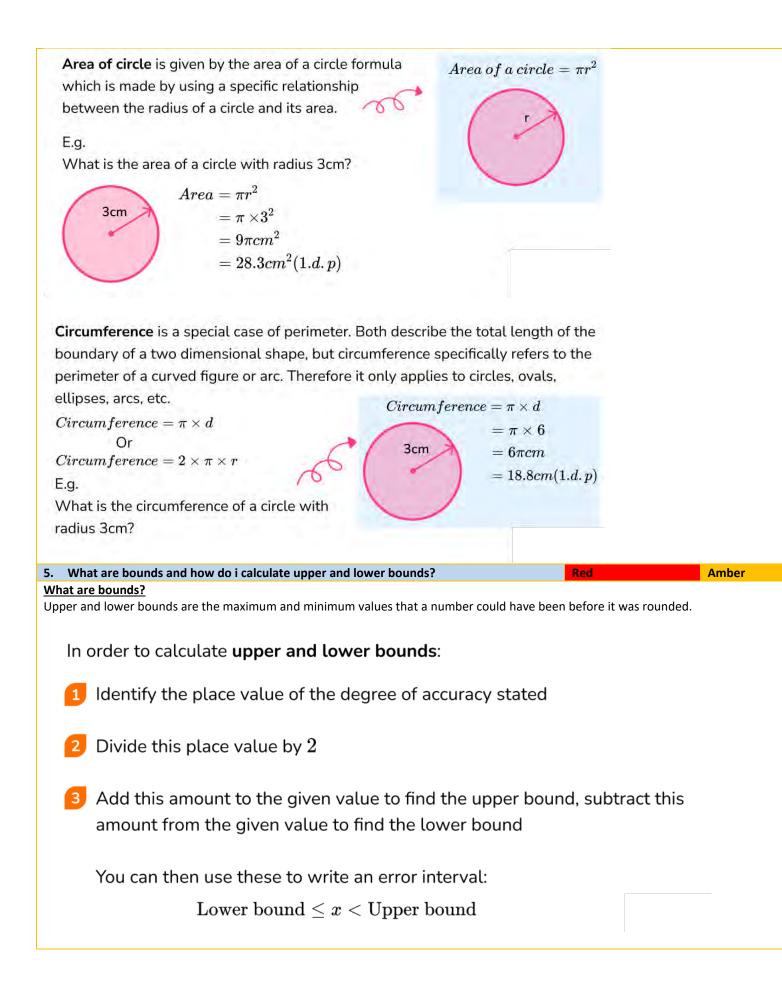
Shape		Formula	
Triangle	height	$Area \ = \ rac{1}{2}  imes base  imes height$	
Rectangle	height base	Area = base  imes height	
Parallelogram	Insight	Area = base  imes height	
Rhombus	width	$Area = \frac{1}{2} \times width \times height$ $Area = \frac{1}{2} \times diagonal \times diagonal$	
Trapezium		$Area\ =\ \frac{1}{2}(a+b)h$	
Circle	r	$Area = \pi r^2$	

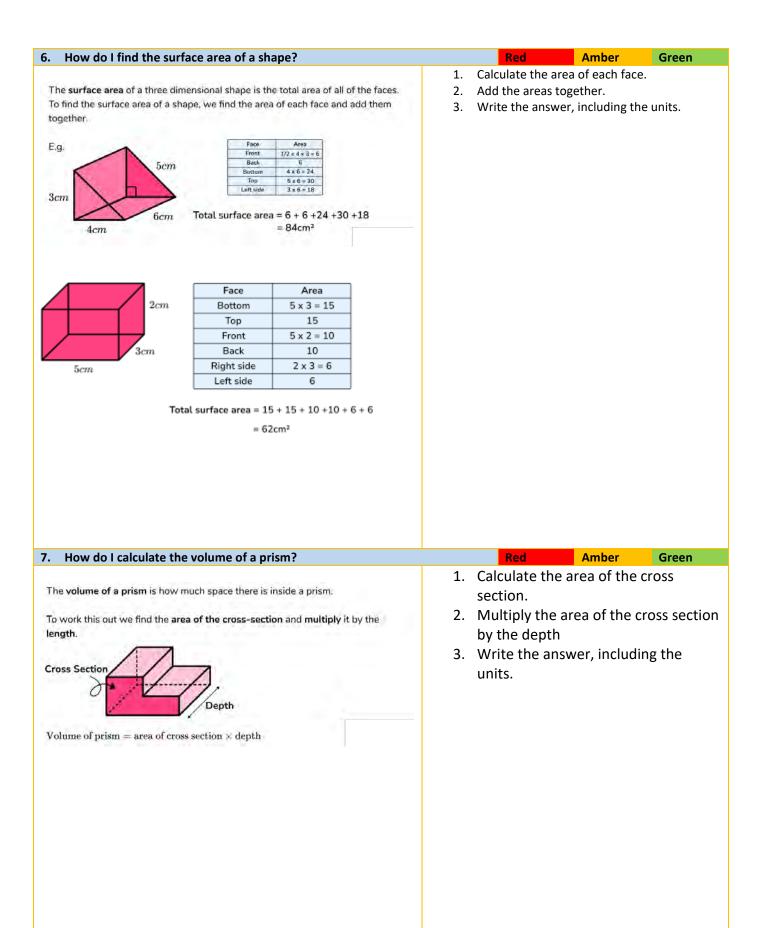
- 1. Break down the compound shape into basic shapes.
- 2. Find the area of the basic shapes.
- 3. Add the areas



Area of Shape A + Area of Shape B = Area of Compound Shape

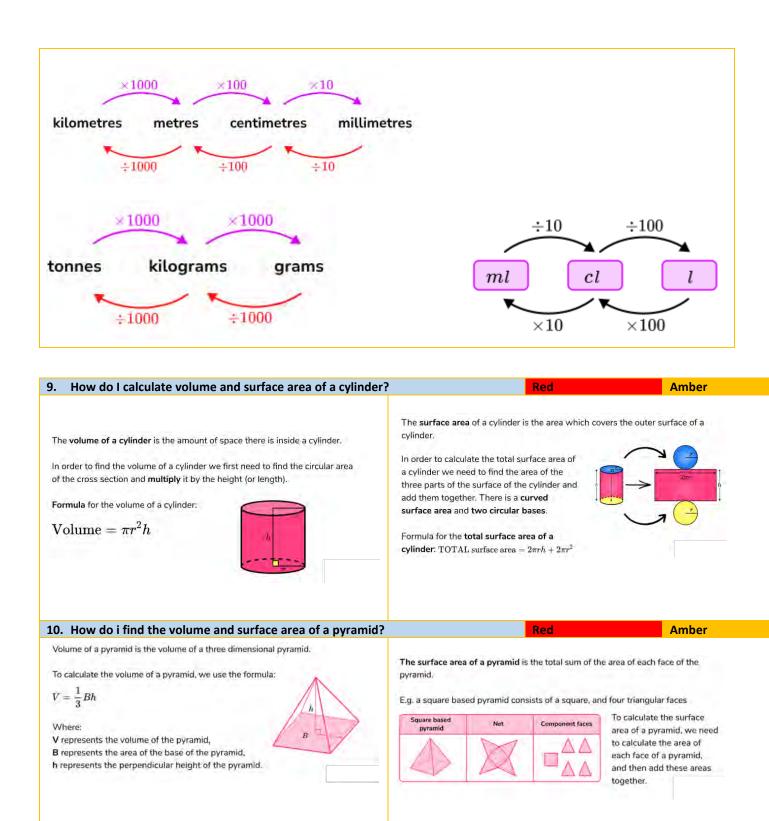






Red

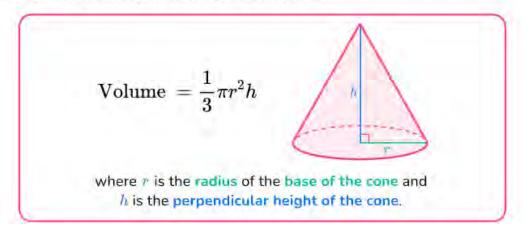
Amber Green



11. How do I find the volume and surface area of a cone?	Red	Amber

The **volume of a cone** is the amount of space inside a cone. The volume of a cone is **one third** of the volume of a cylinder. The volume of a cone can be calculated using a formula.

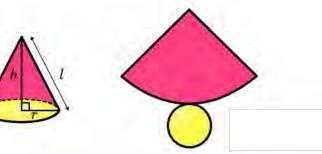
To do this, substitute two of the dimensions of the cone into the volume formula, and evaluate the result. The volume formula for any cone is:



The **surface area of a cone** is the area which covers the outer surface of the cone.

In order to calculate the total surface area of a cone we need to find the area of the two parts of the surface of the cone and add them together. There is a curved surface area and a circular base.

TOTAL surface area  $= \pi r l + \pi r^2$ 



12. How do I find the volume and surface area of a sphere?	Red	Amber	Green
The volume of a sphere is finding the amount of space inside a sphere The formula for the volume of a sphere is: $Volume = \frac{4}{3}\pi r^3$ The formula for the surface area of a sphere with radius r is: Surface area = $4\pi r^2$ HOME LEARNING TASKS			
Task Description			Done?

## Chemistry Year 10 Term 1 – Acids and Alkalis

#### Term Focus -

#### **Prior Learning Links**

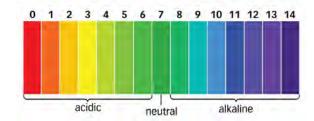
- Properties of acidic, alkaline and neutral substances.
- pH scale.
- Formation of ions .
- Physical and chemical reactions
- Rates of reaction and reversible reactions
- Concentration and volume

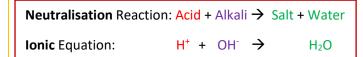
#### **Future Learning Links**

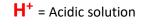
- Stoichiometric calculation
  - Rates of reaction
- Factors affecting rates of reaction
- Qualitative and quantitative analysis
- Environmental chemistry •



KEY VOCABULARY	
Acid	Metal carbonate
Alkali	Metal oxide
H⁺ ion	Salt
OH⁻ ion	Ore
Indicator	Oxidation
Neutralisation	Reduction
Concentration	Redox
Solute	Half equation
Solution	Ionic Equation
Solvent	Electrode
Ionise	Anode
Strong acid	Cathode
Weak Acid	Electrolyte
1. Acids and Alkalis	Red Amber Green







#### **Key terms**

Ion: An atom that has lost or gained electrons to become a charged particle. Ionic equation: An equation that shows only the ionic particles that react and the products they form.

**XX**(s): Substance is in a solid state.

**XX**(1): Substance is in a liquid state.

**XX**<sub>(g)</sub>: Substance is in a gaseous state.

XX<sub>(ag)</sub>: Substance is dissolved in water

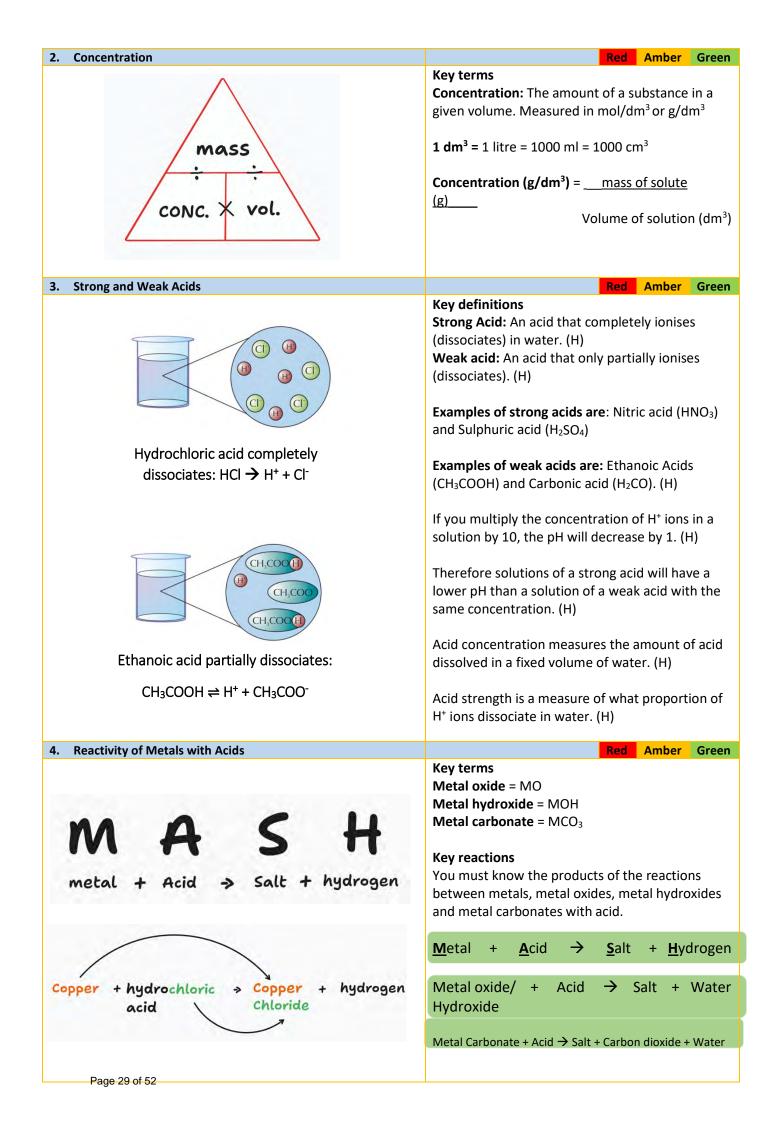
How acidic or alkaline a solution is can be measured on the pH scale

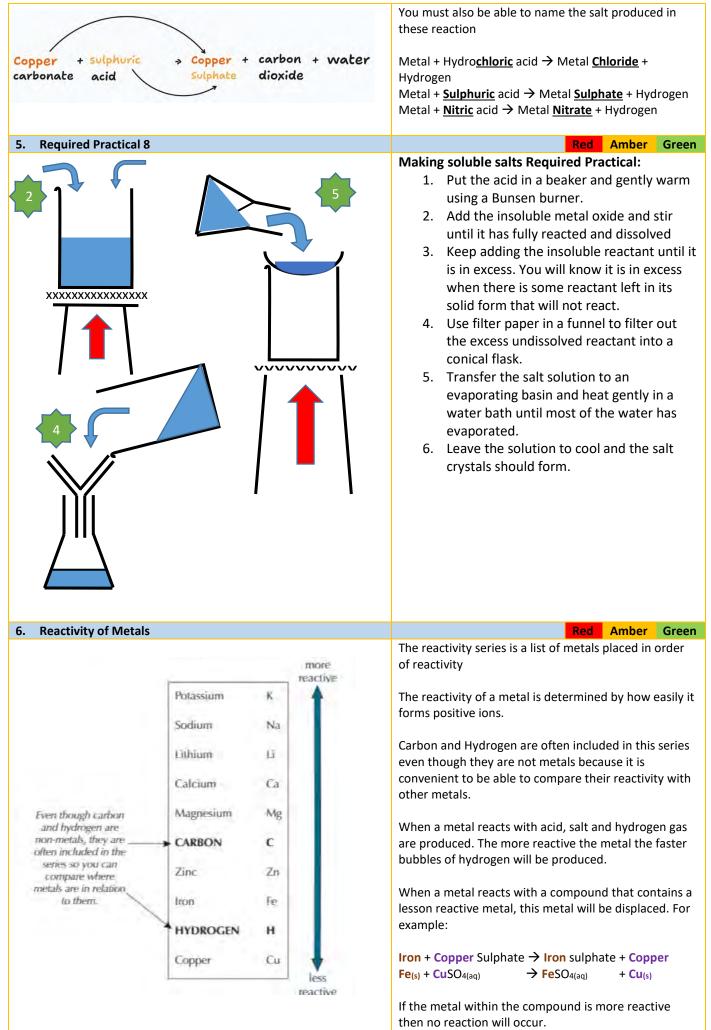
A neutral substance has a pH of 7, an acidic substance has a pH less than 7 and an alkaline solution greater than 7

pH of a solution can be measured using either a universal indicator or a pH probe.

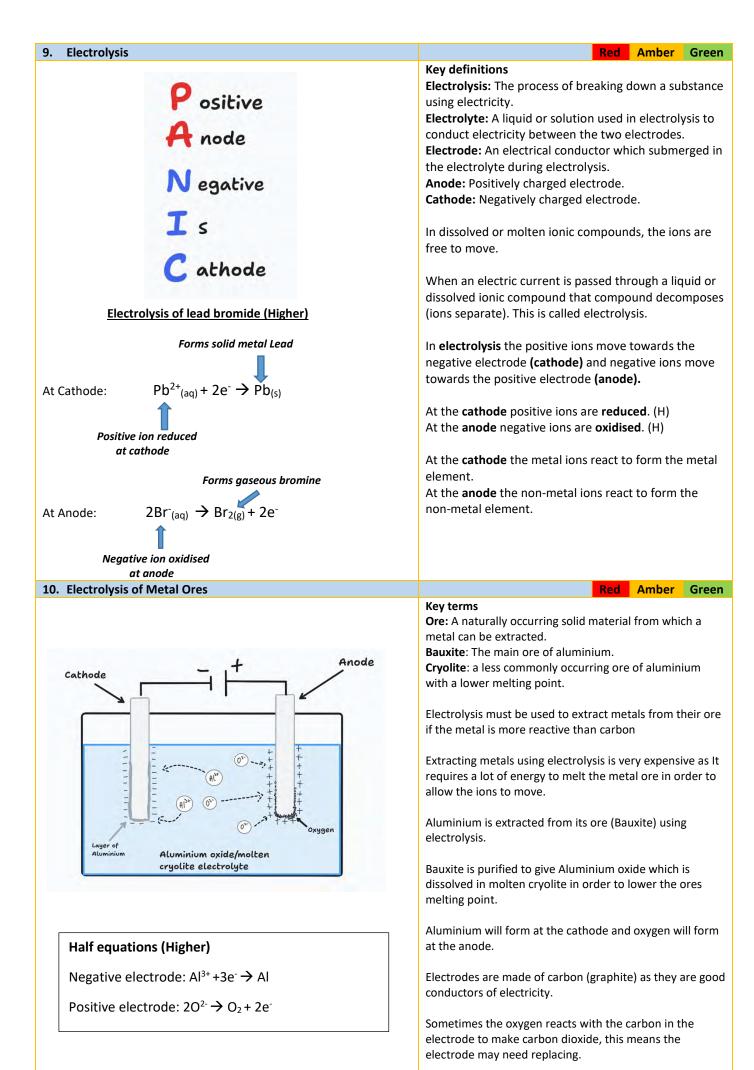
Hydrogen ions (H<sup>+</sup>) make a solution acidic and hydroxide ions (OH<sup>-</sup>) make a solution alkaline.

In a neutralisation reaction between an acid and alkali, hydrogen ions (H<sup>+</sup>) react with hydroxide ions (OH<sup>-</sup>) to produce water.





	Red Amber Green			
	Some elements like Gold and Silver are found as themselves in the earth but most metals are found in compounds that need extracting.			
	When a metal reacts with Oxygen it forms a metal oxide			
The Reactivity Series Potassium K Continue K	<b>Oxidation</b> can be defined as an element gaining an oxygen atom.			
Extracted using electrolysis.	<b>Reduction</b> can be defined as a compound losing an oxygen atom.			
Extracted by eduction using carbon. Extracted by eduction using carb	If a metal is lower than carbon in the reactivity series it can be extracted by a reduction reaction with carbon. For example:			
Copper cu	Iron oxide + Carbon $\rightarrow$ Iron + Carbon dioxide 2Fe <sub>2</sub> O <sub>3</sub> + 3C $\rightarrow$ 4Fe + 3CO <sub>2</sub>			
	Here the Iron has been reduced because it has lost an oxygen.			
	If a metal is above carbon in the <b>reactivity series, it</b> <b>must be extracted by electrolysis.</b>			
Redox Reactions	Red Amber Green			
Displacement reaction: $\frac{\text{Zinc} + \text{Copper Sulphate} \rightarrow \text{Zinc Sulphate} + \text{Copper}}{2n} + \text{Cu}^{2+} SO_4^{2-} \rightarrow \text{Zn}^{2+} SO_4^{2-} + \text{Cu}}$ Half equations: $\text{Zn} \rightarrow \text{Zn}^{2+} + 2e^-$ (Oxidation) $Cu^{2+} + 2e^- \rightarrow Cu$ (Reduction)	<ul> <li>reduced and another substance in oxidised.</li> <li><b>Displacement reaction:</b> A reaction where a more reactive element replaces a less reactive element in a compound.</li> <li><b>Half equation:</b> An equation which shows how electrons are transferred when a substance is reduced or oxidised.</li> <li><b>Oxidation:</b> When substances lose electrons.</li> <li><b>Reduction:</b> When substances gain electrons.</li> <li><b>OIL RIG:</b> <u>O</u>xidation <u>is Loss R</u>eduction <u>is G</u>ain.</li> <li>Oxidation and reduction can also be described in terms of losing and gaining electrons. (H)</li> </ul>			
	Substances that lose electrons in a reaction are described as being oxidised and substances that gain electrons are described as being reduced. (H)			
Reaction of metal and acid:	described as being oxidised and substances that gain			
$Fe_{(s)} + 2HCI_{(aq)} \rightarrow FeCI_{2(aq)} + H_{2(g)}$	<ul><li>described as being oxidised and substances that gain electrons are described as being reduced. (H)</li><li>If in a reaction, there are species that are oxidised and</li></ul>			
	described as being oxidised and substances that gain electrons are described as being reduced. (H)			
$Fe_{(s)} + 2HCI_{(aq)} \rightarrow FeCI_{2(aq)} + H_{2(g)}$	<ul><li>described as being oxidised and substances that gain electrons are described as being reduced. (H)</li><li>If in a reaction, there are species that are oxidised and</li></ul>			



11. Electrolysis of aqueous solutions	Red Amber Green
d.c. power flow of supply flow of electrons regative electrone (anode) layer of opper metal vertice ion vertice ion vertice ion intervention intervention vertice ion vertice ion	<ul> <li>Key terms</li> <li>Aqueous solution: Solution containing a substance dissolved in water.</li> <li>H*: Positively charged Hydrogen ion</li> <li>OH: Negatively charged Hydroxide ion</li> <li>When carrying out electrolysis on an aqueous solution H* and OH<sup>-</sup> ions will also be present.</li> <li>Only one ion can move to each electrode to forms the products.</li> <li>The products formed at each electrode depends on the reactivity of the ions.</li> <li>In an aqueous solution the least reactive positive ion will always move to the anode.</li> <li>In an aqueous solution OH<sup>-</sup> ions will always move to the cathode unless there are halide ions present (Cl<sup>-</sup>, Br<sup>-</sup>, l<sup>-</sup>).</li> <li>When OH<sup>-</sup> ions reach the cathode oxygen and water is produced.</li> </ul>
12. Required Practical 9	Red Amber Green
	Electrolysis of aqueous solution practical
Cathode       Anode         Cathode       Copper chloride         Solution       Copper chloride         Solution       Copper: Chloride         Chlorine: Damp litmus paper turns white.       Hydrogen: Makes squeaky pop sound with a lit splint.         Oxygen: relights a glowing splint.       Copper: Chloride	<ol> <li>use a measuring cylinder to add 40 ml of copper chloride solution into a beaker</li> <li>place two graphite rods into the copper sulfate solution - attaching one electrode to the negative terminal of a dc supply, and the other electrode to the positive terminal</li> <li>place two small test tubes over each electrode to collect any gases produced</li> <li>turn on the power supply and observe what happens at each electrode</li> <li>test any gas produced by holding a piece of blue litmus next to the electrode, or by holding a lit splint next to it</li> <li>record your observations and the results of your tests</li> <li>rinse the electrochemical cell apparatus and collect a new set of electrodes</li> <li>repeat steps 1–6 using sodium chloride solution</li> </ol>
	Solution
HOME LEARNING TASKS Task Description	Done?
Define an acidic and alkaline solution.	
Define a displacement reaction and give an example.	
Calcium carbonate is made into a solution with a concentration of carbonate dissolved in 300 ml of water. Write the half equation for the reaction that occurs at the anode w	hen molten aluminium oxide undergoes
electrolysis. State whether this reaction is a reduction or oxidation	
Describe a method for making and extracting zinc nitrate salt in a s Describe a method for verifying the products of the electrolysis of 2	

products at each electrode and how you will test for these products. Page 33 of 52

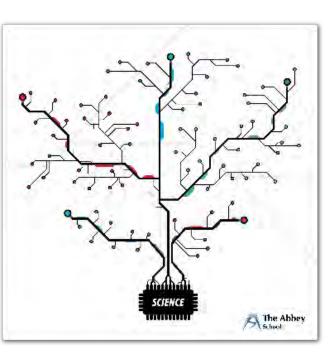
### Science Year 10 Term 1 – P4 & P5a – Atomic Structure &

#### Forces

#### **TERM FOCUS** – Big Ideas: What do we know about atoms and their interactions? **Prior Learning Links Future Learning Links** Particle knowledge AND model gained in KS2 1. KS3 Science Investigations 2. GCSE Required Practical Activities Science. Atoms in general are made of a nucleus 3. GCSE Science Investigations and **electrons** that move around the nucleus. Most of the mass of the atom is concentrated in the Support Resources nucleus, which is in turn made up GCSCEPOD of protons and neutrons. The numbers of the individual particles can tell us the identity of a particular atom and determine its properties. KS2/3 Science – The Scientific Method KS2/3 Science - Evaluating experiments and planning for the future Nuclear Model of the Atom Electron (-) Proton (+)

Neutron

GCSCEPOD ATOMIC STRUCTURE https://members.gcsepod.com/shared/podcasts/chapter/89166 NUCLEAR RADIATION https://members.gcsepod.com/shared/podcasts/chapter/89167 FORCES AND INTERACTION https://members.gcsepod.com/shared/podcasts/chapter/89170 WORK DONE & ENERGY TRANSFER. https://members.gcsepod.com/shared/podcasts/chapter/89204 bbc bitesize Resources Atomic structure Atomic structure - GCSE Physics (Single Science) - BBC Bitesize Forces Force - GCSE Combined Science - BBC Bitesize



#### 1. The History of the Atom

#### LQ: How has our understanding of the atom developed over time?

Key term/question	Definition/answer		<u>1</u> .	1. Subatomic particle properties		P4 - Atomic structure	
1. What are the three subatomic particles?	Protons, neutrons and electron	ns	What is	the mass of a proton?	1	-	
2. Which subatomic particles are found in the nucleus?	Protons and neutrons		What is the mass of a neutron? 1		1	<u>5. Half-life</u>	
3. Which subatomic particle orbits the nucleus?	Electrons		What is	the mass of an electron?	0 (1/2000)	A S C D	
4. The mass number is	number of protons and neutro	ns. (Big number)	What is	the charge of a proton?	+1		
5. The atomic number is	number of protons and therefore the number of electrons (Small number)		What is	the charge of a neutron?	0		
6. Define ion.	An atom gains of lose electrons to become charged.		What is	the charge of an electron?	-1	Variation of the states	
7. What is an isotope?	Same element with the same n	number of protons, but different number of neutrons.		2. Timeline of the	atom	t=0 years. (=12 w	
8. What is the structural difference between Carbon- 12 and Carbon- 14?	Number of neutrons		Date		ogram	Half life: The time taken for the number of radioactive nuclei/decay events to decrease	
9. What are the three types of radioactive decay?	Alpha, Beta, Gamma		1805	Indivisible spheres		half.	
10. What is an alpha particle composed of?	A helium nucleus: two protons	and two neutrons.		at the set of the set		Calculating half-life from a	
11. What is a beta particle?	A fast-moving electron		1897	Plum pudding model	(°+°)	graph. Activity of Sample A Over 2 Minutes	
12. How does beta decay occur?	A neutron in the nucleus turns into a proton and electron. The proton remains and the electron is ejected.					120	
13. What is gamma radiation?	An electromagnetic wave emitted from the nucleus		1909	1909 Nuclear model following Rutherford's experiment	00)	100 g 80	
14. What was Rutherford's experiment and why was it important?	Rutherford fired alpha particles at a thin sheet of gold, 1 alpha particle in 8000 bounced back, disproving the plum pudding model and it suggested that atoms have a dense nucleus.				)	dues 60 60 40	
15. What is irradiation?	When an object is exposed to r	When an object is exposed to radiation		Bohr model	$\sim$	20	
16. What is contamination?	When radioactive material gets	al gets on an object.			00	0 50 100	
17. How is radiation measured?	radiation measured? Using a Geiger-Muller counter				$((\bullet))$	0 50 100 Time (s)	
3. Radioactive Decay		4. Nuclear equations	1 C		20	<ol> <li>Choose two values from the activity/number of nuclei (Y axis).</li> </ol>	
Alpha Beta particles particles	Gamma waves	Alpha $225_{88}$ Ra $\xrightarrow{4}_{86}$ Rn + ${}^{222}_{86}$ Rn + ${}^{4}_{2}$ He	1919	Bohr model with protons in the nucleus		One number should be half of the other. E.g 100 and 50. 2. Use a ruler to draw across to the	
Least penetrating	Most penetrating	Beta decay $ \begin{array}{c}       Beta \\       decay \end{array} \xrightarrow{\begin{subarray}{c}       Beta \\       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \\       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}        \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}        \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \xrightarrow{\begin{subarray}{c}       \underline{S}_{4} \stackrel{\bullet}{\longrightarrow} \begin{suba$	1932	Bohr with neutrons and protons in the nucleus		<ul> <li>plotted line for each value.</li> <li>3. Use a ruler to draw down to the time (X axis)</li> <li>4. Find the difference in time, which shows the <u>half life</u>. In the example the half-life is 10 seconds.</li> </ul>	

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Scientist	Time	Contribution	Key term/question		
John Dalton	Start of 19th century	Atoms were first described as solid spheres.	1. What are the three subatomic	Pro	
JJ Thomson	1897	Thomson suggested the plum pudding model - the atom is a ball of charge with electrons scattered within it.	<ul><li>particles?</li><li>2. Which subatomic particles are found in the nucleus?</li></ul>	Pro	
			3. Which subatomic particle orbits the nucleus?	Eleo	
imest Rutherford	1909	Alpha Scattering experiment - Rutherford discovered that the mass is concentrated at	4. The mass number is	Nur	
		the centre and the nucleus is charged. Most of the mass is in the nucleus. Most atoms	5. The atomic number is	nun elec	
tiels Bohr	Around 1911	are empty space. Bohr theorized that the electrons were in shells	6. Define ion.	An cha	
		orbiting the nucleus.	7. What is an isotope?	San but	
ames Chadwick	Around 1940	Chadwick discovered neutrons in the nucleus.	8. What is the structural difference between Carbon- 12 and Carbon-14?		
			Red A	mber	
		Inderstand about an atom's structure?	Red An Isotopes	nber	
	6 protons + 6 neutrons		An isotope is an element with the same number of protons but a different number of neutrons. They have the same atomic number, but different mass numbers.	mic Nu	
			Isotope Protons Electrons Neutrons	Na	
	electron	Carbon Carbon-13 Carbon-		RODIER	
11/		6 Protons 6 Protons 6 Proton		1	

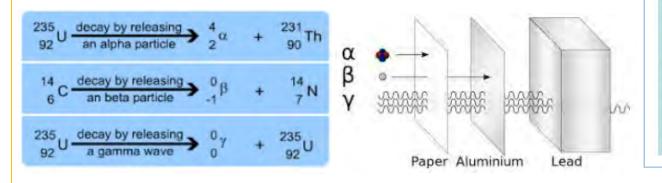
ey term/questionDefinition/answerWhat are the three subatomic<br/>articles?Protons, neutrons and electronsWhich subatomic particles are found in<br/>ne nucleus?Protons and neutronsWhich subatomic particle orbits the<br/>ucleus?ElectronsThe mass number is ...Number of protons and neutrons. (Big number)The atomic number is...number of protons and therefore the number of<br/>electrons (Small number)Define ion.An atom gains of lose electrons to become<br/>charged.What is an isotope?Same element with the same number of protons,<br/>but difference<br/>etween Carbon- 12 and Carbon-14?

#### Green umber and Mass Number Mass number: This is the total of protons+neutrons Atomic number: This is the number of protons н 0 6 Neutrons + proton 7 Neutrons S Neutr 1 Therefore sodium has 11 protons, 11 electrons and 23-11= 12 neutrons 'n Nuclear number Nuclear nut Nuclear number 1 2 1 neutron =6+6 16+7 # 6 + S Some isotopes are unstable and, as a result, decay and give out radiation. Ionising radiation is radiation that can knock Carbon atom -12 - 13 - 14 electrons off atoms. Just how ionising this radiation is, depends on how readily it can do that.

#### 3. Radioactivity

LQ: How can unstable atoms become stable through radioactive decay?

Key term/question	Definition/answer
9. What are the three types of radioactive decay?	Alpha, Beta, Gamma
10. What is an alpha particle composed of?	A helium nucleus: two protons and two neutrons.
11. What is a beta particle?	A fast-moving electron
12. How does beta decay occur?	A neutron in the nucleus turns into a proton and electron. The proton remains and the electron is ejected.
13. What is gamma radiation?	An electromagnetic wave emitted from the nucleus
14. What was Rutherford's experiment and why was it important?	Rutherford fired alpha particles at a thin sheet of gold. 1 alpha particle in 8000 bounced back, disproving the plum pudding model and it suggested that atoms have a dense nucleus.
15. What is irradiation?	When an object is exposed to radiation
16. What is contamination?	When radioactive material gets on an object.
17. How is radiation measured?	Using a Geiger-Muller counter. (In Becquerels: Bq)



Alpha Decay Equations	Beta Decay Equations
An alpha particle is made of two protons and two neutrons. The atomic number goes down by two and its	A neutron turns into a proton and releases an electron. The mass of the nucleus does not change
mass number decreases by four.	but the number of protons increases.
Camma rays	\$ <b>\$</b> → \$ <b>\$</b> − ;Li ,'Be ,'e
There is no change to the huc source emits gamma radiation	
rid of excess energy.	
	AAAAAAA
	MMMM

### The three types of radiation

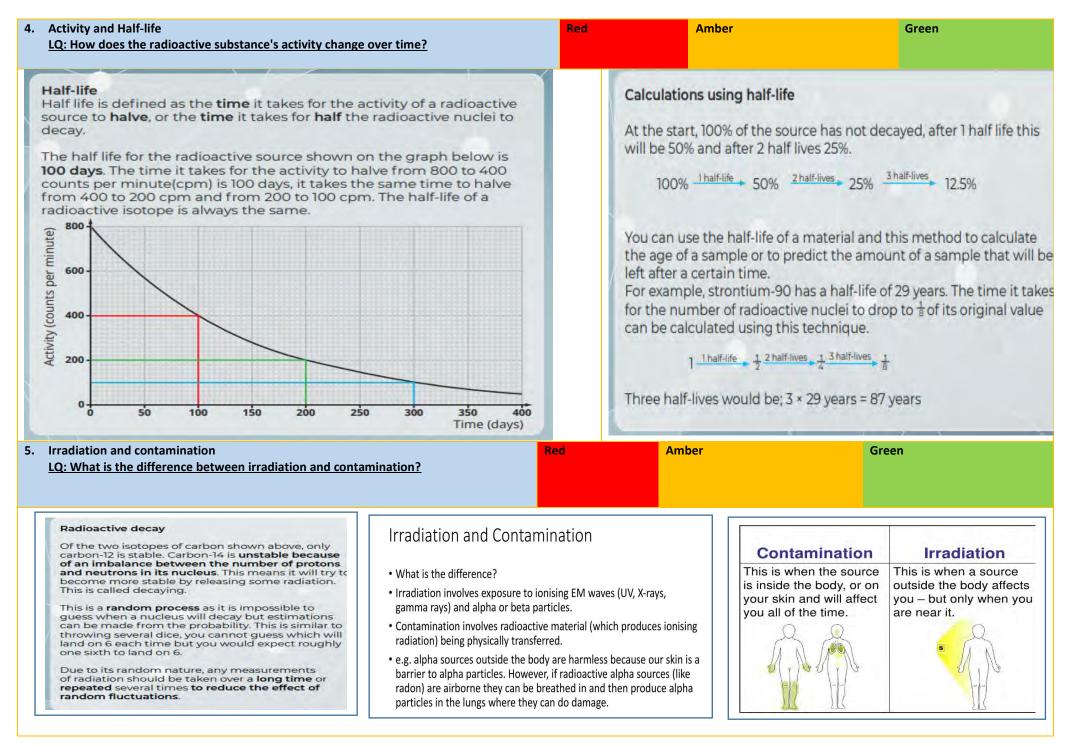
Use this table to find information about and to compare  $\alpha,\beta$  and  $\gamma$  radiation

	Alpha (a)	Beta (ß)	Gamma (y)
Nature	It's a nucleus of helium "He. Two protons and two neutrons	It's an electron e	It's an electromagnetic wave
Charge	+2	-1	0
Mass	Relatively large	Very smail	No mass
Speed	Slow	Fast	Speed of light
lonizing effect	Strong	Weak	Very weak
Most dangerous	When source is inside the body	When source is outside the body	When source is outside the body

Green

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#### ATOMIC STRUCTURE TRIPLE

LQ: What do modern scientists understand about an atom's structure?

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Section 8: Ke	y Terms	Section 1	0: Nuclear Fission		
Background radiation is around us all of the time. It comes from: • natural sources such as rocks and cosmic rays from space		Nuclear fission is the <b>splitting of a large and unstable atom's nucleus</b> (e.g. uranium or plutonium) into two smaller nuclei and the release of neutrons and energy.			
adiation	<ul> <li>man-made sources such as the fallout from nuclear weapons testing and nuclear accidents.</li> </ul>	Induced	Energy is released in a nuclear rea of nuclear fission. In induced fissi	ion, the 🛛 🖉 🖉 🔊	
Radiation dose	A measure of the amount of exposure to radiation, measured in sieverts (Sv).	fission	nucleus of an atom is struck by a causing the nucleus to split into tw fragment nuclei. Energy is also re	wo smaller 🛛 📲 🖉 🔹 🥻	
Radioactive sotopes	opes tracers to monitor organs. lioactive tracers Trace the flow of a substance through an organ. Solitting of an atom's pucleus into two smaller puclei and the release of two or		Unstable nuclei are bombarde neutrons.		
Radioactive tra			<ul> <li>The nuclei undergo fission and</li> <li>Two smaller nuclei are form neutrons.</li> </ul>		
Nuclear Fission			<ul> <li>Energy is released.</li> <li>Released neutrons cause more split which produces a chain re</li> </ul>		
Auclear Fusion       is the joining of two light nuclei to form a heavier nucleus. In this process some of the mass may be converted into the energy of radiation.         Section 9: Radioactive isotopes and medicine         Jsed in medicine for medical imaging, treatment of cancer and tracers to monitor/explore internal organs. How useful the radioactive isotope is depends on it's half life and the type of radiation tiven out.		Stations	<ul> <li>The reaction is controlled usin rods which absorb the neutr down the chain reaction).</li> </ul>	ng control 🛛 😽 🖤	
		Castion	<ul> <li>A coolant removes the heat energy, usually to produce steam.</li> <li>if not controlled). The by a nuclear weapon i uncontrolled chain re</li> </ul>		
Radioactive Tracers (like radioactive Iodine) contain a <b>radioactive isotope</b> that <b>emits</b> <b>gamma</b> radiation. <b>Radioactive Iodine</b> is used because: • Half life of 8 days (lasts lone enough for test but decays completely after a few weeks). • Emits gamma so can be detected outside the body. • Decays into a stable product.		Section 11: Nuclear fusion Process of forcing the nuclei of two atoms close together forming a single larger nucleus. The two nuclei collide at high speed. Energy is released when the nuclei fuse together. The <b>suns core</b> releases energy due to the nuclear fusion reaction of hydrogen nuclei into helium nuclei.			
		Nuclear f	ission	Nuclear fusion	
Gamma Cameras Take <b>images</b> of <b>internal body organs</b> . Before image is taken, patient is injected with solution containing a gamma-emitting radioactive isotope. The solution is absorbed by the organ and the camera detects the gamma radiation. The half life of the radioactive isotope <b>should not be</b> too <b>long</b> (to avoid unnecessary risks) <b>or too short</b> (so a useful image produced).				A developing technology. Needs to be at high temperature and pressure for react take place and generate energy.	
		world)	um (only found in some parts of	Hydrogen fuel easily available as present in water	
Gamma Gamma Ga	Gamma beams (or radioactive implants) can destroy cancer cells in a tumour.		adioactive waste which has to be ely and securely.	Reaction product helium is stable.	

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#### **Topic 5 Forces**

#### L1: Contact and Non-contact Forces & L2: Weight ,mass and Gravity LQ: What is the difference between contact and non-contact forces? LQ: How can gravity and mass be used to calculate weight?

#### Scalar and vector quantities

Scalar quantities have only a

nagnitude and o Scalar	direction. Vector		
Distance	Displacement		
Speed	Velocity		
mass Acceleration			
Temperature	Force		
Pressure	Weight		
Volume	Momentum		
Work	-		

#### **Contact and Non-contact Forces**

Forces are always the result of objects **interacting** with each other. For instance, the force of gravity keeping this piece of paper on the desk is the result of the interaction between the

Earth's mass and the paper's mass. All forces can be classified as contact or non-contact forces.

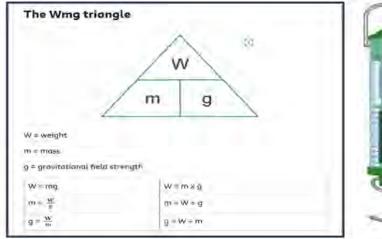
Examples of contact forces: friction, air resistance, tension, the normal contact force. Examples of noncontact forces: gravitational force, electrostatic force and magnetic force.

#### MASS AND WEIGHT

<u>Mass</u> means how much matter an object contains, whereas <u>weight</u> is the force on an object due to gravity. Mass is measured in kg, whereas weight is measured in N. Mass is measured using a **balance**, whereas weight is measured using a **newton meter**. <u>Mass does not vary depending on gravitational field strength</u>, whereas weight does depend on gravitational field strength.

#### Gravity

Gravity is a force that acts between any two objects with mass. W = mg is the equation that relates weight to mass and gravitational field strength. On Earth g = 10 N/kg. Gravity is the force that holds objects in orbit





Key Terms	Definitions		
Quantity	Anything that can be given a numerical value.		
Magnitude	Size of a quantity. E.g. a distance of 5 metres has a higher magnitude than 2 metres.		
Scalar	Describes quantities that only have a magnitude (size). E.g. speed (how fast something is moving).		
Vector	Describes quantities that have a magnitude AND a specific direction. E.g. velocity (speed in a particular direction)		
Force	A vector quantity. Forces are pushes or pulls that act on object. Forces have size and direction. Forces are the rest of objects interacting with each other.		
Contact forces	For these forces to act, the interacting objects have to be physically touching.		
Non-contact forces	For these forces to act, the interacting objects don't have to be touching (they are physically separate).		
Resultant force	The single overall force acting on an object. It has the same effect as all the forces acting on the object all together. The resultant force is the vital thing in working out how an object will move. If there is a resultant force, the object's speed will change; or the shape of the object will change; or the direction of the object will change. If the resultant force is nothing (the forces cancel out), the object will keep doing what it was doing – either not moving at all, or moving along at a steady speed.		

Challenge question: How do forces shape the movement of objects in the world? Suggested reading: GCSCEPOD https://www.bbc.co.uk/bitesize/ topics/z4brd2p/articles/zs3896f Forces - GCSE Physics (Single Science) - BBC Bitesize

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#### L3: Resultant Forces (some higher content). LQ: How can the resultant of two forces be calculated?

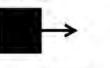
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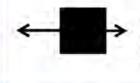
#### **The Resultant Force**

In real life, there are usually a few forces acting on any particular object. All the forces can be shown with vectors (arrows – see above). When we take all the forces into account, we can draw just one vector arrow to show a single force, which has the same effect on the object as all the other forces acting at once. This is simplest when the forces are in a straight line:



two forces are acting; by adding them we get the resultant force....

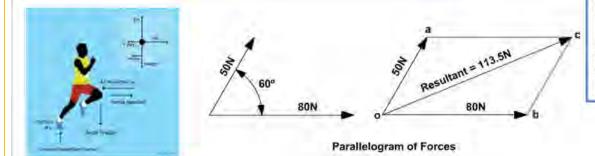




this time, the forces are opposite in direction, and are different in magnitude. We subtract one from the other to get the resultant force...

# Free body diagrams

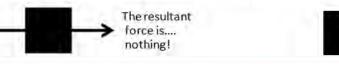
Free body diagrams are used to describe situations where several forces act on an object. Vector diagrams are used to resolve (break down) a single force into two forces acting at right angles to each other



#### **Resultant Force continued**

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If the forces acting on an object are equal in magnitude and opposite in direction, then the resultant force ends up being ZERO. You can say the forces are balanced. Reading the definition above should make it clear that a resultant force of zero means that an object's movement will not change. So if it was moving to start with, a resultant force of zero means it keeps moving at the same speed. Also, zero resultant force means the direction can't change.



#### Resultant force - The parallelogram rule (Higher only)

The parallelogram of force is used to find the resultant force when the forces don't act in the same line. To find the resultant force you:

- 1. Work out the scale
- Copy out one force to scale so it follows on the other force at the same angle as the original
- 3. Repeat for the other force. The forces should meet and create a parallelogram.
- 4. Draw the resultant force between this point and the point the objects act from.
- 5. Measure the size of this arrow.
- 6. Use the scale to determine the magnitude of the force

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#### Work done and energy transfer

'Work' has a particular meaning in physics. If work has been done, energy has been transferred. Work is always done as a result of a force acting on an object. The amount of work can be calculated using W= Fs.

For example, if a force of 1000N makes the car move 200m to the left ...

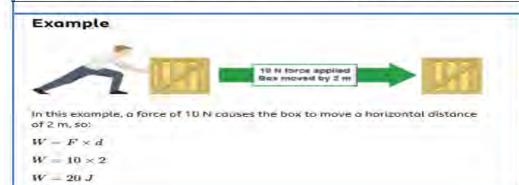
The work done is W= 1000 x 200 = 200 000 J This means 200 000 J of energy was transferred.



#### Work done against Frictional Forces

When objects move, they are almost always moving against a frictional force – so the friction arrow is opposite to the direction of motion. Doing work against friction causes an energy transfer to heat (thermal) energy. This raises the temperature of the object and the surroundings.

There are frictional forces even when objects move through the air - air resistance.



#### **Distance vs. Displacement**

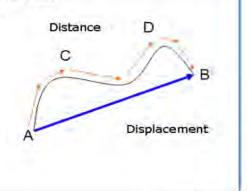
Displacement is different to distance because it involves the direction that an object has moved. The displacement is always measured in a straight line from start to end of a journey, missing out any wiggles along the way.

Key Terms	Definitions
Work done	The measure of how much energy is transferred when a force makes an object. You can say: 'a force does work on an object when it makes it move'. Doing work always involves the transfer of energy. This is a scalar quantity.
Joule	The unit joule (J) is how the amount of energy transferred by doing work is measured. 1 joule = 1 newton metre (thanks to the equation, below).
Distance	How far an object moves. It does not include direction , so distance is a scalar quantity.
Displacement	The distance an object moves from where it started. This is measured in metres. It is a vector quantity, because it includes the direction an object moved.
Friction	A contact force that results when two objects move past each other. They have to be touching.

Equation	Meanings of terms in equation and units	
W = F s	W = work done	
	(joules, J) F = force	
*	(newtons, N)	
	s = distance (metres, m) – aka displacement	

#### Distance vs. Displacement Diagram

Look how displacement is simply a straight line from A to B. Distance is the total, with visits to C and D during the journey.



Task DescriptionDone?Look, cover, write the definition of keywords used in topic 1-history of an atom. Draw a timeline showing the history of the atom, starting with the ancient Greeks in 500BC, and ending with the nuclear model.Image: Compare the plum pudding model of an atom Compare the plum pudding to the current nuclear model of an atom.Write a definition of: mass number, atomic number and an isotope. A doctor weighs 600 N. A lift moves her 40 m to the top floor of a hospital. Calculate the work done on the doctor by the lift. In a scrum, a rugby team pushes the other team backwards 5 m using a force of 1000 N. Calculate the work done moving the other team. A sample has a half-life of 8 hours. It has an initial activity of 200 Bq. Calculate the attivity of the sample after 1 day.Image: Calculate the work done moving the sample after 1 day.Write a description of the three different radiation sources in terms of: their ionising ability, how far they travel, and what they are stopped by. A nucleus emits a gamma ray; what happens to the mass and charge of the atom? Give the definition of half-life.Image: Calculate the work done different radiation sources in terms of: their ionising ability, how far they travel, and what they are stopped by.Give the definition of half-life.Image: Calculate the different radiation of half-life.	HOME LEARNING TASKS	
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In a scrum, a rugby team pushes the other team backwards 5 m using a force of 1000 N. Calculate the work done moving the other team. A sample has a half-life of 8 hours. It has an initial activity of 200 Bq. Calculate the activity of the sample after 1 day. Write a description of the three different radiation sources in terms of: their ionising ability, how far they travel, and what they are stopped by. A nucleus emits a gamma ray; what happens to the mass and charge of the atom? Give the definition of an isotope.	Write a definition of: mass number, atomic number and an isotope.	
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Write a description of the three different radiation sources in terms of: their ionising ability, how far they travel, and what they are stopped by. A nucleus emits a gamma ray; what happens to the mass and charge of the atom? Give the definition of an isotope.	In a scrum, a rugby team pushes the other team backwards 5 m using a force of 1000 N. Calculate the work done moving the other team.	
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Give the definition of an isotope.	Write a description of the three different radiation sources in terms of: their ionising ability, how far they travel, and what they are stopped by.	
	A nucleus emits a gamma ray; what happens to the mass and charge of the atom?	
Give the definition of half-life.	Give the definition of an isotope.	
	Give the definition of half-life.	

# Biology Year 10 Term 1 – B3, Infection and Response

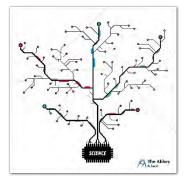
#### Term Focus –

#### Looking into what causes infection and how we can prevent it.

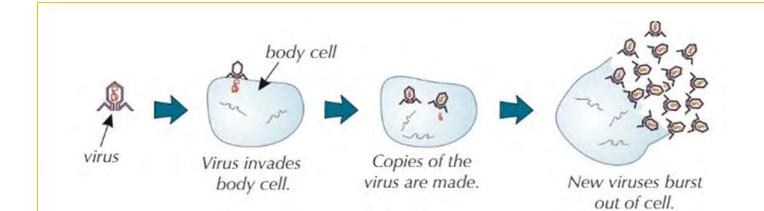
#### **Prior Learning Links**

- KS3 Science knowing the structural adaptations if unicellular organisms.
- KS3 Organelles that are found in living organisms (plant, animal, bacteria).
- KS3/4 Science Understanding of non-communicable diseases.
- KS4 The function of white blood cells.
- KS3/4 knowing the process of photosynthesis; including the word equation.
- KS3/4 Understanding of how plants make their food.
- KS3 Understanding of respiration and gas exchange in plants.

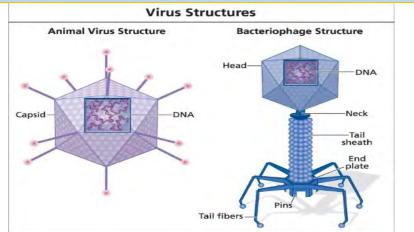
- Future Learning Links
   GCSE Required Practical activities.
  - B6 New species, variation, extinction and adaptation.
  - B7 Ecology
  - B7 Maintaining ecosystems



Communicable Diseases		Red Amber Gree
- Mile		Key terms/Definitions:Pathogen: Microorganisms that can cause disease.Communicable disease: Infectious disease
<ul> <li>There are 4 types of pathogens: <ul> <li>Bacteria</li> <li>Viruses</li> <li>Protist</li> <li>Fungi</li> </ul> </li> <li>Viruses are NOT cells and can only replicate once they are inside a host's cell.</li> </ul>	<ul> <li>Examples of eukaryotic cells include:         <ul> <li>Fungi and protists</li> </ul> </li> <li>Example of prokaryotic cell includes:         <ul> <li>Bacteria</li> </ul> </li> </ul>	can be spread between individuals. <b>Eukaryotic cells:</b> Cells that contain a nucleus and organelles, enclosed within a plasma
Pathogens spread through:	4	membrane.
- Drinking contaminated water		Prokaryotic cells:
- Inhaling pathogens carried in the air		Cells with a single
<ul> <li>Touching contaminated surfaces</li> </ul>		strand of DNA
		floating free in



#### 2. Viral Disease



Viral disease	How is it spread?	Main symptoms	Treatment	
Measles	Airborne droplets from an infected person through coughing or sneezing. Prevent through self- isolation.	Red skin rash. High fever	No treatment, however can be vaccinated as a child.	
HIV	Exchanging bodily fluids. E.g. unprotected sex, sharing needles.	Flu-like symptoms.	Controlled with antiretroviral drugs which stops the virus replicating in the body.	
Tomato mosaic virus	Direct contact (touch). Leaf to leaf or a farmers hand to a new plant.	Mosaic patterns on leaves. Stunted plant growth.	No treatment. Remove infected plant.	

Key terms/Definitions: Virus: A tiny particle that causes disease in people, other animals and plants. The cell the virus invades is called the host cell.

Green

Red Amber

#### Measles:

A highly contagious disease caused by a virus. Spread when an infected person breathes, coughs or sneezes.

#### HIV:

A virus that damages the cells in your immune system and weakens your ability to fight everyday infectious diseases. Spread by exchanging bodily fluids.

#### Tobacco Mosaic Virus

**(TMV):** A virus that causes discolouration and stunted growth. Spread through direct contact from plants through its vectors.

#### Vectors:

Living organisms that can transmit infectious pathogens between humans, or animals to humans. E.g. Mosquitoes.

3. Fungal and Pro	tist Diseases				Red Amber Gree
Disease	Type of disease (fungal / protist)	How is it spread?	Main symptoms	Treatment	Key terms/definitions Fungal Disease: Pathogens that can cause communicable
Rose black spot	Fungal	Water	Black/purple spots.	Fungicides	diseases in humans.
		Wind	Leaves turn yellow. Leaves fall off. Stunted growth.	leaves to be stripped off the plant and	<b>Protist Disease:</b> Eukaryotic microorganisms that spread disease throug vectors.
Athlete's foot	Fungal	Direct contact Indirect contact (shower floors)		destroyed. Antifungal creams.	Rose Black Spot: Fungus that causes black/purple spots to develop on the leaves rose plants. Athlete's foot: A fungal infection of skin, usually occurs in between the toes. Common in individuals whose feet sweat.
Malaria	Protist	Vectors (mosquitoes)	Episodes of fever.	Antimalarial medicines.	Malaria: A life threatening disease which is sprea to humans by a vector (typically mosquitoes)
4. Bacterial infect		Red Amber Gree			
<b>Examples of Bacter</b> Salmonella – caused	aused by a bacterial pathc	ogen. Bacteria ente	rs the body and infects it	t.	
Salmonella:			Gonorrhoea:		
	of salmonella include: Fev diarrhoea.	er, abdominal crar	np, - Sympto	-	include: Green discharg painful to urinate.
- Transmitte	ed by ingesting contaminat	ed food.	- Transmi	itted through unp	rotected sex.

Controlled by: Vaccinating poultry, preparing food in hygienic conditions, cooking food thoroughly.
 Controlled by: Using a condom during sexual intercourse, treated with antibiotics.

always work.

A small number

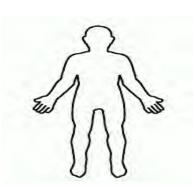
of people have

to vaccinations

(seizure).

adverse reactions

#### 5. Fighting Disease



#### The body's defences:

- > The skin acts as a barrier
- > Nose, Trachea and Bronchi mucus traps pathogens
- Trachea and Bronchi cilia wafts mucus up to the throat.
  The stomach HCl kills pathogens.

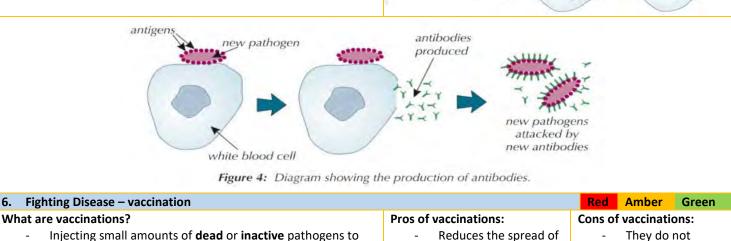
White blood cells defend the body from harmful pathogens by phagocytosis, producing antibodies, and producing antitoxins.

- Phagocytosis White blood cells <u>engulf</u> and <u>digest</u> pathogens.
- Antibodies lock onto invading pathogens so that white blood cells can detect and destroy them.
- Antitoxins neutralise the toxins produced by bacterial pathogens.

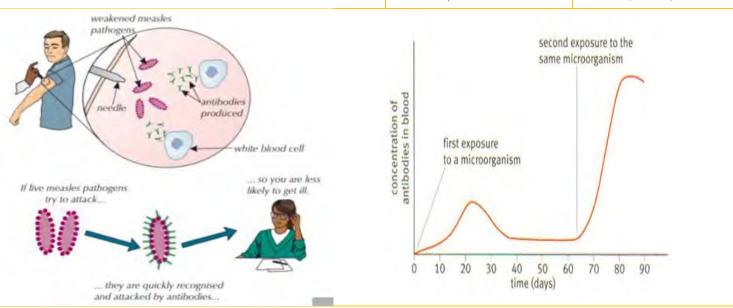
**Antibodies** recognise pathogens as foreign to the body because pathogens have antigens on their surface. This then is detected by the white blood cells which in turn triggers the production of antibodies.

White blood cells can engulf foreign cells and digest them. This is called phagocytosis. *pathogen* 

> white \_\_\_\_\_ blood cell



This protects people, because if infected with a live pathogen, white blood cells rapidly produce antibodies to prevent infection.
 The protect of the spread of mactive pathogen is to many infectious diseases.
 Prevents larger outbreaks of disease – these are known as epidemics.



**Epidemic** – Disease that affects a large number of people within a cimmunity, population or region.

Pandemic – This is an epidemic that has spread over multiple countries or continents (e.g. COVID-19).

#### 7. Fighting Disease - Drugs

Red Amber Green

resistance occurs when

Green

Red Amber

#### **Different Types of Drugs:**

**Developing Drugs** 

8.

**Drug** – A drug a chemical substance that affects the functioning of living things (altering how the mind and/or body works), drugs can produce both harmful and beneficial effects.

**Painkillers** are one type of drug and are taken by individuals to treat the symptoms of a disease but DO NOT kill the pathogen. **Antibiotics** are a second type of drug and are taken to only kill bacteria.



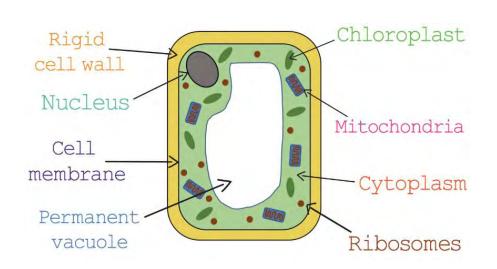


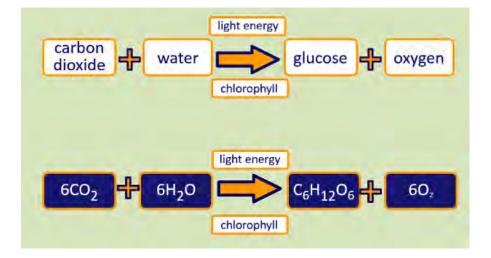
Antibiotic

bacteria are able to mutate, this allows them to become resistant to an antibiotic.

Alexander Fleming was the first to discover antibiotics and this was accomplished accidently.

#### The drug checklist: When creating a new drug there are a number of things that it must be tested on first: Safe/Toxicity Test on animal cells Effective against the disease (efficacy) At the correct dosage (optimal dose) 0 Test on small animals **Toxicity** – How harmful the drug is Efficacy – whether the drug works and produces the desired effect. Optimal Dose - the most suitable concentration with the fewest side Test on larger animals (E.g. chimps) effects. Side effects - Symptoms that the drug causes which are not beneficial to the patient. Test on healthy volunteers Preclinical Trials – Drugs are tested on human cells and tissues in the lab before tested on live animals (e.g. mice). **Clinical Trials** – Drug passes the test on animals -> Tested on healthy human volunteers -> then tested on those with the illness. Test on patients Placebos – A substance that looks like the drug being tested but does not do anything. Blind trial – The patient does not know whether they are getting the drug or the placebo. Double blind trial – Both the patient and the doctor does not know if the patient is getting the drug or the placebo.





# RedAmberGreenKey term and Function:

#### Chloroplast

A structure in a plant cell which contains chlorophyll. The site of photosynthesis

#### Mitochondria

Site of most reactions for aerobic respiration

#### Cytoplasm

Gel-like substance in a cell wall where most chemical reactions take place.

#### Ribosomes

Site of protein synthesis

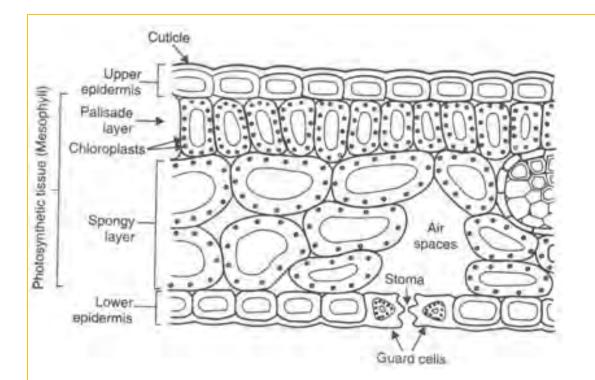
#### **Permanent Vacuole**

Contaisn cell sap to keep the cell turgid **Cell membrane** Semi-permeable and controls what enters and exits the cell

#### Nucleus

Contains DNA that controls cellular activity

**Cell Wall** Supports and strengthens the cell



#### 10. Uses of Glucose

# Leaves Can be tested for starch to check if photosynthesis has taken place:

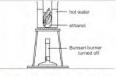
#### Method

 Take the two leaves and cut the end off the one that has been in the dark, so you can remember which is which.



- 3. Place both leaves in a beaker of boiling water for one minute.
- Place the leaves on a petri dish and put a few drops of iodine solution on them. If a blue-black colour appears, there is starch in the leaf.

 Turn off the Bunsen burner. Half fill a test tube with ethanol. Place two leaves in it using forceps. Place the test tube into the beaker of hot water and leave it for 5 minutes.



Take the leaves out of the test tube and wash them with tap water.



#### Plant use glucose for several reasons:

- 1) Respiration
- 2) Makes cellulose
- 3) Makes amino acids for protein synthesis

Glucose + Nitrate ions = Amino Acids

Plants convert excess glucose into two different states to be stored. They are:

- 1) Starch
- 2) Lipids

Glucose is stored as starch because glucose is soluble, however, starch is insoluble.

**Epidermal tissue** Waxy cuticle to prevent water loss by evaporation

#### Upper epidermis tissue Transparent to let

light pass through

#### Palisade mesophyll tissue

Contains many chloroplasts for photosynthesis

# Spongy mesophyll tissue

Contains air spaces to allow gases to diffuse in and out of cells

#### **Guard cells**

Controls the opening and closing of the stomata

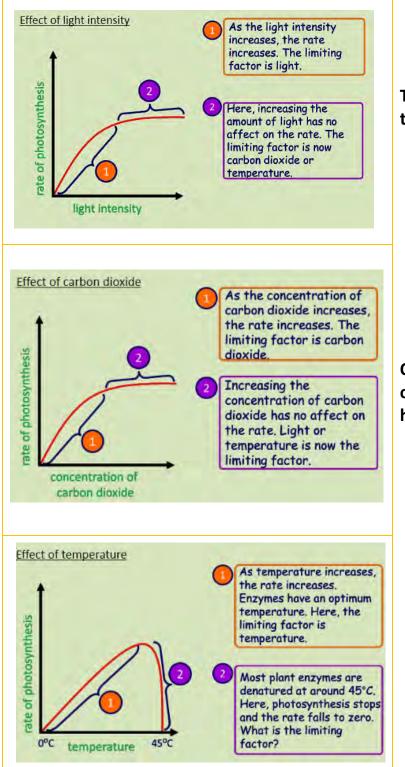
#### Stomata

Holes underneath the leaf which allow carbon dioxide to diffuse in and oxygen to diffuse out

#### Red Amber Green

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#### 11. Rate of Photosynthesis



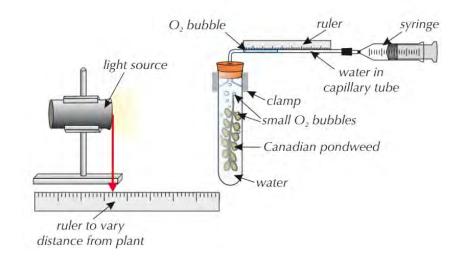
# The rate of photosynthesis is affected by three limiting factors:

- 1) Light intensity
- 2) Volume of Carbon Dioxide
- 3) Temperature

Optimal level needs to be achieve din each of the limiting factors to achieve the highest rate of photosynthesis.

#### 12. Required Practical – Rate of photosynthesis

Red Amber Green



#### Method for investigating the rate of photosynthesis

Secure a boiling tube to a clamp and add sodium hydrogen carbonate solution. Add to the boiling tube a piece of pond weed.

Using a meter ruler, place the boiling tube 10 cm away from a lamp.

Turn on lamp and wait 5 minutes to allow the pond weed to start photosynthesising.

Using the stopwatch count how many oxygen bubbles are produced in 60 seconds.

Repeat the count two more time and calculate the mean.

Repeat steps 1 to 6 by moving the boiling tube further away from the lamp by 10 cm each time until reaching a distance of 60 cm.

HOME LEARNING TASKS			
Task Description	Done?		
What is a pathogen?			
What are the 4 types of pathogens?			
How is the trachea adapted to its function?			
How are pathogens spread?			
What are two symptoms of measles?			
Name 2 fungal diseases and how they can be spread.			
How do white blood cells defend the body from harmful pathogens?			
What is a pro and con of vaccinations?			
What is the difference between a painkiller and an antibiotic?			
What 3 things need to be tested when creating a drug?			
What is a placebo?			
What are the body's defences to fighting disease?			
What is the function of the nucleus?			
What is the function of the palisade mesophyll tissue?			
How can excess glucose be stored?			
What is the word and symbol equation for photosynthesis?			
Why is an LED bulb used during the investigation into rate of photosynthesis?			

# Knowledge Organiser

# Additional Subjects Year 10 Term 1 2024/25



# Contents

P.3-8 History P.9-11 Geography RE P.12 Sport Science P.13-29 Art P.30-39 P.40-43 Drama Dance P.44-50 P.51-55 Media **Business** P.56-59 P.60-67 MFL P.68-70 Health and Social Care P.71-73 Child Development P.74-77 Hospitality and Catering

# History Year 10 Term 1 – Change & Continuity in Norman England 1066-1088

How different was Norman England from Anglo-Saxon England? Historians used to think that the feudal system introduced to England by William I was very different from how Anglo-Saxon society was organised. Now, historians have identified as much continuity as change, although undoubtedly Norman England was governed by different people: the Normans. The way it was governed might have had many similarities to government under Edward the Confessor, but now the purpose of that government was to maintain Norman control and, in particular, boost the power and wealth of the king. In this unit you will analyse the implications of social changes brought about by the feudal system and the reorganisation of the Church; the role of Norman government; the Norman aristocracy, and finally, the struggle surrounding William's succession following his death in 1088.

Scan me!

#### GCSE Pod

- Prior Learning Links
   Year 7 Term 2 Analysis of the Feudal System and it's impact on England
  - Medicine Through Time Themes of change and continuity in Year 9 Term 1-4
  - Year 9 Term 5 Understanding of the make-up of Anglo-Saxon England used as a basis to compare to Norman England

#### Future Learning Links

**KEY VOCABULARY** 

- Social, cultural and religious changes will be covered in Part 3 of the GCSE course – Weimar & Nazi Germany
- Aspects of change and continuity will also appear in Part 3, where you will compare and contrast the features of Weimar Germany to Nazi Germany

#### Historical Skills Vocabulary

**Cause** – the reason for something happening **Change** – when things are different to how they were before

Consequence – the result of something happening

**Continuity** – the opposite of change; when something stays the same or continues

**Difference** – the ways in which things are different to one another

**Factor** – something that can affect, or determine an event or outcome

**Inference** - a conclusion drawn about something using the information you already have about it

**Rate of change** – the pace at which change occurs; e.g. very quickly or slowly

**Reliability** – the degree to which something can be trusted or relied upon as accurate

**Significance** – the importance of something

Similarity – the quality of being similar, or the same Trend – when there are a number of similar and related

changes continuing in the same direction over a period of time

**Turning point** – a significant change happens – something that is different from what has happened before and which will affect the future

#### Paper 2 (B1) Anglo-Saxon & Norman England 1066-1088 Core Vocabulary

Administration - the management and organization of the affairs of a government, business, or institution.

Anglo-Saxon – a member of any of the West Germanic tribes (Angles, Saxons and Jutes) that settled in Britain from the 5<sup>th</sup> century AD and were dominant in England until the Norman Conquest Aristocracy - a class of people holding exceptional rank and privileges, often hereditary nobility. Conquest - the act of taking control of a country, city, etc., through the use of force.

**Government** – the group of people in a country who are responsible for governing (ruling) it **Economy** - the wealth of a country gained from business or industry

**Integration** - the process of combining or adding parts to make a unified whole, especially within societies and cultures.

**Legacy** - something that is a result of events in the past; often referring to what a previous generation has left behind.

**Legislation** – laws passed by a government **Norman** - pertaining to the people from Normandy in northern France, especially those who invaded and settled in England in 1066.

**Rebellion** - an act of violent or open resistance to an established government or ruler.

**Succession** - the process of inheriting a title, office, property, etc.; often referring to the sequence in which one person follows another.

#### Norman England 1066-1088 Vocabulary

- 1. Aristocracy a class of people holding exceptional rank and privileges, especially the hereditary nobility.
- 2. Centralized Power consolidation of control and authority in a single governing body or leader.
- 3. Demesne land attached to a manor and retained for the owner's use.
- 4. **Domesday Book** a record of a survey of English lands and properties ordered by William the Conqueror in 1086.
- 5. **Feudalism** the dominant social system in medieval Europe, in which the nobility held lands from the Crown in exchange for military service.
- 6. Fief land held by a vassal in return for service to a lord (also called a feud)
- 7. Forfeiture the loss or giving up of something as a penalty for wrongdoing.
- 8. Homage formal public acknowledgment of feudal allegiance.
- 9. Knight Service the military service owed by a knight to his lord in return for land.
- 10. Labour Service work performed by peasants for their lords as part of the feudal contract.
- 11. Lanfranc an Italian Benedictine monk who became the Archbishop of Canterbury under William I.
- 12. Logistics the planning and organisation of supplies for troops and moving troops around.
- 13. **Manor** a large country house with lands; the principal house of a landed estate.
- 14. **Normanisation** the process of implementing Norman culture, language, and administrative systems in England.
- 15. **Odo of Bayeux** a half-brother of William the Conqueror, who became Bishop of Bayeux and played a significant role in Norman politics.
- 16. **Primogeniture** the right of an eldest son to succeed to the estate of his ancestor to the exclusion of all others
- 17. **Regent** a person appointed to administer a country because the monarch is a minor, absent, or incapacitated.
- 18. Sheriff an official responsible for keeping the peace and enforcing the law in a county.
- 19. Stigand the last Anglo-Saxon Archbishop of Canterbury before the Norman Conquest.
- 20. Succession the process by which a new monarch or leader is selected to follow the previous one.
- 21. Tenants-in-Chief the nobles who held their lands directly from the king in return for military service.
- 22. Vassal a holder of land by feudal tenure on conditions of homage and allegiance.
- 23. Vernacular the language or dialect that is most widely spoken by ordinary people in a region or country.
- 24. William Rufus the third son of William the Conqueror, who became King William II of England.
- 25. Writ a formal written order issued by a body with administrative or judicial jurisdiction.

1. How did the feudal hierarchy shape medieval society?	Red	Amber	Green		
Are you able to explain the roles and responsibilities of tenants-in-chief and knights?	Are you able to explain the roles and responsibilities of tenants-in-chief and knights?				
Can you describe the concept of feudalism, including landholding, homage, knight service, and	l labour se	rvice?			
Are you able to discuss the consequences of forfeiture in the feudal system?					
2. What role did the Church play in medieval England?	Red	Amber	Green		
Are you able to identify the Church's influence on both society and government?					
Can you explain the significance of key figures such as Stigand and Lanfranc in the Church?					
Are you able to describe the process of Normanisation and reform of the Church during Willia	m I's reign	?			
3. To what extent did Anglo-Saxon society and economy change under Norman rule?	Red	Amber	Green		
Are you able to compare Anglo-Saxon society before and after the Norman Conquest?					
Can you analyse the economic transformations that occurred due to Norman policies?					
Are you able to evaluate the overall impact of Norman rule on Anglo-Saxon traditions and systems?					
4. How did government structures change after the Norman conquest?	Red	Amber	Green		
Are you able to describe the centralization of power under William I?					
Can you explain the role and significance of earls and regents in Norman government?					
Are you able to assess the effectiveness of these changes in governance?					
5. What was the role of sheriffs and the demesne in Norman England?	Red	Amber	Green		
Are you able to explain the duties and powers of sheriffs?					
Can you describe the concept and importance of the demesne in Norman administration?					
Are you able to discuss the introduction and significance of the 'forest'?					
6. Why was the Domesday Book significant for Norman government and finance?	Red	Amber	Green		
Are you able to describe the purpose and process of the Domesday survey?					
Page 4 of 77					

Can you explain the information recorded in the Domesday Book?			
Are you able to analyse the financial, military, and administrative implications of the Domesda			
7. What were the cultural and linguistic characteristics of the Norman aristocracy?	Red	Amber	Green
Are you able to identify key cultural practices of the Norman elite?			
Can you describe the influence of Norman French on language and administration?			
Are you able to compare Norman aristocratic culture with that of the Anglo-Saxons?			
8. What was the significance of Bishop Odo's career?	Red	Amber	Green
Are you able to outline the major events and accomplishments in Bishop Odo's life?			
Can you explain Bishop Odo's influence on Norman politics and society?			
Are you able to evaluate the long-term impact of Bishop Odo's actions and policies?	Ded	Amphon	Cuan
9. How did William I's character and personality influence his reign?	Red	Amber	Green
Are you able to describe William I's leadership style and personal traits?			
Can you explain the nature of William's relationships with key figures, such as his son Robert?			
Are you able to assess how William I's character affected his policies and governance?	Red	Amber	Green
10. What were the causes and consequences of Robert's revolt in Normandy (1077-1080)? Are you able to identify the reasons behind Robert's revolt against William I?	Reu	Amper	Green
Can you describe the key events and outcomes of the revolt?			
Are you able to analyse the impact of the revolt on Norman and English politics?			
11. How did William I's death lead to a disputed succession?	Red	Amber	Green
Are you able to explain the circumstances surrounding William I's death?	nou	Amoer	Green
Can you describe the key contenders and conflicts in the succession dispute?			
Are you able to evaluate the impact of the disputed succession on Norman stability?			
12. What were the key events and outcomes of William Rufus's conflict with Robert and	Red	Amber	Green
Odo?			
Are you able to outline the main events in William Rufus's struggle for power?			
Can you explain the roles of Robert and Odo in this conflict?			
Are you able to assess the consequences of William Rufus's victory for the Norman kingdom?			
HOME LEARNING TASKS			
Task Description		Do	one?
Use 'Look, Cover, Write, Check' to learn the Norman England 1066-1088 Vocabulary			
Complete GCSE Pod Tasks 1-4 using the QR code at the top of the page			
Create a table with two headings: Changes, Continuities. Consider the aspects of economy, law,	governme	nt,	
culture and society and provide examples of all of the changes between Anglo-Saxon England &	Norman		
England, and all of the continuities.			
Exam Style Question: Describe two features of the feudal system. (4 marks)			
Exam Style Question: Explain why William I had a poor relationship with his son, Robert. (12 ma	rks)		
Exam Style Question: 'Taxation was the most significant feature of the Domesday Book.' How fa	r do you a	gree	
with this statement? (16 marks)			

# History Year 10 Term 1 – The Weimar Republic 1918-1929

By November 1918, the First World War had been going on for four years. The German army was still deadlocked against the armies of the Allies (including Britain, France and the United States). The Allies were gradually gaining the upper hand, but Germany was still undefeated on the battlefield. However, back at home, the German state was crumbling. Demonstrations, strikes, revolts and mutinies had broken out across the country. Between November 1918 and July 1919, in a series of events known as the German revolution, the Kaiser abdicated and a new German state – the Weimar Republic – was formed. Nevertheless, the new Weimar Republic was crippled from the start. It carried wounds inflicted by four years of warfare. It was resented by a large part of the German people. It was also governed under a flawed constitution – the Weimar Republic had a difficult birth.

#### Prior Learning Links

• Year 8 Term 5 – Weimar & Nazi Germany

#### **Future Learning Links**

- Year 10 Term 2-3: Completion of investigation into Weimar & Nazi Germany detailing the rise of the Hitler and the establishment of a dictatorship.
- Year 12 Paper 1: Germany 1918-1989 provides an investigation in breadth and depth of the Weimar Republic and Nazi Germany



GCSE Pod

#### **KEY VOCABULARY**

#### **Historical Skills Vocabulary** Paper 3 GCSE: Weimar & Nazi Germany 1918-1939 Core **Cause** – the reason for something happening Vocabulary **Change** – when things are different to how they were before Abdicate: To give up a position of power or **Consequence** – the result of something happening responsibility, especially a throne or royal office. **Continuity** – the opposite of change; when something stays the Authoritarian: Favoring or enforcing strict obedience to same or continues authority at the expense of personal freedom. Difference - the ways in which things are different to one another Chancellor: The head of the government in some Factor – something that can affect, or determine an event or countries, such as Germany or Austria. outcome Coalition: An alliance for combined action, especially a Inference - a conclusion drawn about something using the temporary alliance of political parties forming a information you already have about it government. Interpretation – an historian's particular view on an event/period Constitution: A set of fundamental principles or or the significance or importance of certain features/factors in established precedents according to which a state or this event/period other organization is governed. Rate of change - the pace at which change occurs; e.g. very Culture: The ideas, customs, and social behavior of a quickly or slowly particular people or society. Reliability - the degree to which something can be trusted or **Communist**: A person who supports or believes in the principles of communism, where all property is owned relied upon as accurate Significance - the importance of something by the community and each person contributes and Similarity - the quality of being similar, or the same receives according to their ability and needs. Trend – when there are a number of similar and related changes **Democracy**: A system of government by the whole continuing in the same direction over a period of time population, typically through elected representatives. Turning point – a significant change happens – something that is Dictatorship: A form of government in which a single different from what has happened before and which will affect person or a small group possesses absolute power the future without effective constitutional limitations. Economy: The system by which a country's money and goods are produced and used. Fascism: A political system based on a very powerful leader, state control of social and economic life, and extreme national pride, often involving the suppression of political opposition. Ideology: A system of ideas and ideals, especially one that forms the basis of economic or political theory and policy.

Left Wing: The liberal, socialist, or radical section of a<br/>political party or system.Liberal: Open to new behavior or opinions and willing to<br/>discard traditional values; often associated with policies<br/>favoring individual freedoms and government<br/>intervention to achieve social equality.Mutiny: Refusal to obey the orders of a person in<br/>authority, especially by soldiers or sailors against their<br/>officers.Prejudice: Preconceived opinion that is not based on<br/>reason or actual experience; bias.

American loans: Financial assistance provided by the United States to Germany to stabilize its economy, particularly through the Dawes and Young Plans.

**Armistice**: An agreement to stop fighting, which ended the fighting in World War I on November 11, 1918. Article 48

**Bauhaus**: An influential German school of art, design, and architecture founded in 1919, promoting modernist ideas. **Dawes Plan**: A 1924 plan to resolve Germany's World War I reparations by restructuring payments and securing foreign loans.

**Expressionism**: A cultural movement in art and cinema during the Weimar period that emphasized emotional experience over physical reality.

Friedrich Ebert: Leader of the SPD, and first Chancellor of the Weimar Republic

Freikorps: Paramilitary groups composed of World War I veterans, often used to suppress communist uprisings in post-war Germany.

**Gustav Stresemann**: A leading German politician and statesman who served as Chancellor and Foreign Minister, instrumental in stabilizing Weimar Germany.

**Hyperinflation**: An extremely rapid and excessive rise in prices, which occurred in Germany in 1923, severely devaluing the German mark.

Kaiser Wilhelm II: The last German Emperor and King of Prussia, whose abdication in 1918 led to the establishment of the Weimar Republic.

**Kapp Putsch**: A 1920 coup attempt by right-wing elements, including the Freikorps, to overthrow the Weimar government. **Kellogg-Briand Pact**: A 1928 international agreement in which signatory states promised not to use war to resolve disputes or conflicts.

**League of Nations**: An international organization established after World War I, which Germany joined in 1926 under Stresemann's leadership.

**Locarno Pact**: A series of agreements signed in 1925, in which Germany, France, Belgium, Great Britain, and Italy mutually guaranteed peace in Western Europe.

**Occupation of the Ruhr**: The 1923 invasion and occupation of the Ruhr Valley by French and Belgian troops in response to Germany's failure to pay reparations.

**Proportional Representation:** An electoral system which promotes a fair representation of all parties voted for – they are <u>represented</u> in <u>proportion</u> to the number of votes they received

**Reichstag:** Part of the Weimar Republic's Parliament – the governing and law-making chamber of Germany. Members were elected at least once every four years

**Revolution of 1918-1919**: A period of political turmoil in Germany that led to the abdication of the Kaiser and the establishment of the Weimar Republic.

Rentenmark: A new currency introduced in 1923 to stabilize the German economy and end hyperinflation.

**Spartacists**: A Marxist revolutionary group that led the Spartacist uprising in January 1919, seeking to establish a communist state in Germany.

**Stab-in-the-back myth**: The belief propagated by right-wing factions that Germany lost World War I due to internal betrayal rather than military defeat.

**Treaty of Versailles**: The 1919 peace treaty that ended World War I, imposing harsh reparations and territorial losses on Germany.

**Women's suffrage**: The right of women to vote, which was granted in Germany with the establishment of the Weimar Republic.

Young Plan: A 1929 program for settling German reparations debts after World War I, which reduced the total amount and extended the payment period.

1.	What were the key events leading to the abdication of the Kaiser and the establishment of the Weimar Republic?	Red	Amber	Green
Car	Can you describe the impact of the First World War on Germany and its society?			
Car	you explain the reasons behind Kaiser Wilhelm II's abdication in 1918?			
Are	you able to summarize the events of the German Revolution of 1918-19?			

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2. What were the main features of the Weimar Constitution?	Red	Amber	Green
Can you identify the strengths of the Weimar Constitution?			
Can you analyse the weaknesses and potential problems within the Weimar Constitution?			
Are you able to compare the Weimar Constitution with the previous autocratic rule under the			
3. How did the armistice and the end of World War I influence the political landscape in Germany?	Red	Amber	Green
Can you explain the terms of the armistice and their implications for Germany?			
Are you able to discuss the immediate political changes that occurred after the armistice?			
Can you evaluate the impact of the armistice on public sentiment in Germany?			
4. Why was the Weimar Republic unpopular in its early years?	Red	Amber	Green
Can you describe the 'stab in the back' theory and its proponents?			
Are you able to explain the key terms of the Treaty of Versailles and their effects on Germany	?		
Can you assess how the Treaty of Versailles contributed to the Republic's unpopularity?			
5. What were the significant threats to the Weimar Republic from the left and right?	Red	Amber	Green
Can you detail the goals and actions of the Spartacist uprising?			
Can you explain the role and impact of the Freikorps in the early Republic? Are you able to analyse the events and significance of the Kapp Putsch?			
<ol> <li>6. What were the causes and consequences of the hyperinflation crisis of 1923?</li> </ol>	Red	Amber	Green
Can you identify the reasons behind the French occupation of the Ruhr and its effects on Gern		Ander	Green
Are you able to explain how hyperinflation affected various groups within German society?	iany:		
Can you evaluate the overall impact of the 1923 economic crisis on the stability of the Weiman	Republic	<b>?</b>	
7. How did Gustav Stresemann contribute to the economic recovery of the Weimar	Red	Amber	Green
Republic?			
Can you describe the introduction and impact of the Rentenmark?			
Are you able to explain the significance of the Dawes and Young Plans in stabilizing the econor	my?		
Can you assess the role of American loans and investment in the Weimar economic recovery?			
8. What were Stresemann's achievements in foreign policy, and how did they influence	Red	Amber	Green
domestic policy?			
Can you explain the importance of the Locarno Pact for Germany?			
Are you able to describe Germany's entry into the League of Nations and its implications?			
Can you analyze the impact of the Kellogg-Briand Pact on Germany's international standing?	_		
9. How stable was the Weimar Republic by 1929?	Red	Amber	Green
Can you discuss the economic and political indicators of stability in the late 1920s?			
Are you able to evaluate the extent of support for the Weimar Republic among the German po	pulation?		
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Can you identify remaining weaknesses and potential threats to the Republic's stability?	Pod	Ambor	
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### Geography Year 10 Term 1 – Cold Environments: Svalbard

Term Focus – Some of the most seemingly inhospitable places in the world have a range of the most distinctive characteristics and are completely valued globally. This Case Study of Svalbard highlights on the interdependence of climate, permafrost, soils, plants and people. Where living in the fragile polar and tundra environments create many challenges and are at risk of economic development. Yet, at the same time, can provide so many opportunities.

time, can provide so many opportunities.
Prior Learning Links Future Learning Links
<ul> <li>Cold environments back in Term 2 Year 7. Foundations of Antarctica.</li> <li>Human activity upon the planet, consequences and sustainability from Term 6 in both Years 7 and 8.</li> <li>PEA global description from Year 9 Term 1 foundations.</li> <li>Further adaptation and interdependence in ecosystems in Term 6 Year 9.</li> <li>Antarctica and Global Commons in AQA KS5 geography.</li> </ul>

AQA

KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
Biodiversity – the variety of plant and animal life in a	Polar – situated near to the earth's poles, reaching
particular habitat.	-40 degrees in winter.
Adapt – a change to fit certain conditions.	Tundra – a vast, flat, treeless Arctic region of
<b>Development</b> – the process of change and growth to	Europe, Asia and North America in which the
improve quality of life.	subsoil is permanently frozen.
Infrastructure – the basic facilities and structures that help	Wilderness area – an area of land undisturbed by
a government and community run.	human activity or development.
Mineral extraction – the removal from the earth materials	Permafrost – permanently frozen ground.
with industrial value.	Thermal Growing Season – the portion of the year
Mitigation – the action to reduce the severity or	in which local conditions permit normal plant
seriousness of something.	growth.
International Agreement – legal binding arrangement made	Interdependence – the dependence of two or
between countries.	more species upon each other, and the
<b>Conservation</b> – the protection, preservation and	environment.
management of something.	Fragile environment – a delicate and precious part
	of our world.

1. What is the climate like in polar and tundra areas? Red Amber (					
Cold environments experience temperatures of 0 C or below for long periods of time and have strong winds. Cold environments cover one-third of the world's land surface.					
Polar Regions Tundra Regions					
Location	The most extreme regions and ice sheets, where temperatures are below zero all year round. E.g. Greenland, Antarctica and Northern Russia.	Found around the Northern A extreme, with <b>Thermal Growi</b> their short summers (approx. E.g. Alaska, Northern Canada Svalbard.	i <b>ng Seaso</b> 2 months	<b>ns</b> in ).	
Climate	Extreme – winter temperatures can fall below - 50 C, strong winds, low snow totals.	Less extreme – winter temper drop to -20 C, warm but brief precipitation (snow) in coasta	summers		

Surface permafrost melting in summer

causing waterlogging.

Svalbard: Norway's Svalbard is close to the Mid-Atlantic Ridge and is the world's most northernly inhabited territory.

Permafrost covered by ice.

Soil

2. How have plants and animals adapted to survive?	Red	Amber	Green
tundra. Most of Svalbard's population live in the main town of Longyearbyen, on Spitzbergen (t	ne largest o	f the island	ds).
Svalbard has 5 major islands (known as an archipelago). 60% of Svalbard is covered in glaciers a	nd the rest	of the land	l is

#### In Polar Regions:

Few plants are found, just mosses and lichen on the fringes of ice. Polar bears: adapted with thick foot pads so they do not slip on ice, and fur surrounding their paws to keep them warm.

#### In Tundra Regions:

The bearberry plant has adapted by: -

- Growing low to the ground to protect itself from the strong winds.
- It's stems having thick bark for stability.
- Having hairy stems for insulation (keeping the plant warm)
- Producing bright red berries in the thermal growing season to attract birds, which spreads seeds.

Arctic Foxes and Arctic Hares are animals which have adapted to tundra. Both can shed their white fur at the start of the thermal growing season, replacing with a brown coat to better camouflage in its surroundings. So the Arctic fox can hunt prey much easier with little detection, and the Arctic hare can hide from predators.

3. V	Vhat are the opportunities for development?	Red	Amber	Green	
1. M	lineral extraction – rich reserves of coal. Provides many jobs and has been the main econom	ic activity	of the area	a.	
2. Er	nergy developments – Geothermal energy. Also, Longyearbyen's coal-fired power station sup	oplying all	of Svalbar	d's	
ener	rgy needs. Plus, Carbon capture and storage.				
3. Fi	shing – The Barent's sea are rich fishing grounds with 150 species of fish (including cod and h	naddock).			
4. To	purism – Most recent main economic activity of the area, providing as many jobs as mining.				
4. H	4. How does tourism provide opportunities for Svalbard? Red Amber Green				
Touri	Tourism is becoming increasingly popular in recent years.				

Svalbard has more jobs in the tertiary sector (tourism) than from primary sector (of mining and fishing).

Seeking out natural sights,	Seeking out unique wildlife,	Seeking out adventure, such	Providing opportunities for
such as the Northern Lights.	especially polar bears.	as hiking, kayaking and	Cruise passengers to stop at
Plus, glaciers and fjords.		snowmobile safaris.	Longyearbyen.

#### 5. Should we be drilling the Arctic for oil?

Cold environments are fragile.

Tundra vegetation takes a very long time to become established. Tundra is a delicate ecosystem which is easily disturbed and damaged by human activities.

- For example, off-road driving in summer leaves deep tyre tracks scaring the thawed surface of permafrost. These scars will remain for decades.

**Alaska: Trans-Alaskan pipeline** – Discovering oil in Prudhoe Bay, northern Alaska, in 1969 stimulated a technological solution to Arctic sea ice preventing tanker movements in winter. A 1300km pipeline. Crossing 2 mountain ranges and 800 rivers. Raised and insulated to prevent the hot oil from melting the permafrost, while allowing for caribou to migrate underneath. Engineered to slide during earthquakes, and a automatic shut off if there is a leak.

**Siberia, Russia** – However, rich reserves of oil and gas remain in high demand. The potential for long-lasting, if not permanent damage to such fragile environments is great, especially from pollution incidents.

 rughe environmente is Bread, especially norm ponation mendentsi					
Oil leaked from broken	River edge habitats polluted	Risk of fires, either started			
pipes.	<ul> <li>trees and vegetation may</li> </ul>	deliberately or by lightning			
	never recover.	strike.			

6. What challenges do humans continue to face living in cold environments?

Red Amber Green

Amber

Green

Red

Living and working in Svalbard, and other cold environments, poses many extreme challenges. Such as

- How do people work in 4 months of complete darkness?
- How can homes be kept warm in very cold winters ( 30 C) ?
- How is water connected to homes, so it does not freeze in the pipes?
- How is sewage and waste removed from houses?
- How do people travel around when roads are covered in snow?
- How can roads be constructed and maintained?

**Extreme temperatures** – Winter temperatures can fall below – 30 C. People are at risk of frostbite. So layers of thick clothing, gloves, boots and socks are essential. This means working outside is slow, difficult and dangerous.

Construction – Building, construction and maintenance can only really happen in the summer months. Permafrost r	
protected from melting, otherwise buildings and infrastructure will collapse. Dirt and gravel roads have to be raised	above
ground surface.	
Services – Pipes must be raised above ground, so they do not freeze. These include water, power and sanitation. The	is is
also so the pipes do not thaw the permafrost and allows for easier maintenance.	
Accessibility – Svalbard can be reached by sea or air. There are no roads outside Longyearbyen. Most people use	
snowmobiles to get around, especially easier in winter. There are international air flights to mainland Norway and R	ussia
(plus some smaller aircraft to other islands).	
7. How can cold environments be managed sustainably? Red Amber	Green
L. Using technology – Such as the Trans-Alaskan pipeline, which has been raised and insulated to protect the permaf	ost and
allow wild caribou to migrate underneath.	
<ol><li>Action by governments – On an internation scale, the Antarctic Treaty states to</li></ol>	
prevent economic development	
promote scientific research	
control tourism to keep disturbance to a minimum	
3. Conservation groups – Such as the WWF (Worldwide Fund for Nature) who work with oil companies, Inuit organisa	itions,
ocal communities and government regulators to plan for a sustainable future.	
3. Should cold environments just be left alone? Red Amber	Green
Cold environments need protecting.	
- For being home to a rich variety of birds, animals and plants who have specially adapted to the conditions.	
For the wild beguty which attracts adventurous tourists and benefits the country's according	
<ul> <li>For the wild beauty which attracts adventurous tourists and benefits the country's economy.</li> </ul>	
<ul> <li>For opportunities for forestry and fishing.</li> </ul>	
- For opportunities for forestry and fishing.	
<ul> <li>For opportunities for forestry and fishing.</li> <li>For indigenous people (e.g. Arctic Inuit) who depend on the wildlife to survive.</li> </ul>	
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<ul> <li>For opportunities for forestry and fishing.</li> <li>For indigenous people (e.g. Arctic Inuit) who depend on the wildlife to survive.</li> <li>For important unpolluted, unspoilt outdoor laboratories for scientific research (e.g. for climate change).</li> <li>HOME LEARNING TASKS</li> <li>Fask Description</li> <li>Learn Key Word Vocabulary.</li> </ul>	Done?
<ul> <li>For opportunities for forestry and fishing.</li> <li>For indigenous people (e.g. Arctic Inuit) who depend on the wildlife to survive.</li> <li>For important unpolluted, unspoilt outdoor laboratories for scientific research (e.g. for climate change).</li> </ul> <b>IOME LEARNING TASKS Task Description</b> Learn Key Word Vocabulary. Quizlet Cold Environment Flash Cards: <u>Svalbard - Cold environment Flashcards   Quizlet</u>	Done?
<ul> <li>For opportunities for forestry and fishing.</li> <li>For indigenous people (e.g. Arctic Inuit) who depend on the wildlife to survive.</li> <li>For important unpolluted, unspoilt outdoor laboratories for scientific research (e.g. for climate change).</li> </ul> HOME LEARNING TASKS Task Description Learn Key Word Vocabulary. Quizlet Cold Environment Flash Cards: <u>Svalbard - Cold environment Flashcards   Quizlet</u> Geog Your Memory Retrieval 1	Done?

#### Buddhist Key ideas/terms to learn

<ul> <li>Buddha's early life &amp; 4 Sights</li> <li>Buddha born Siddhartha Gautama in S. Nepal</li> <li>Parents Queen Maya &amp; King Suddhodana, Maya dreamed white elephant entered her side</li> <li>Buddha took 7 steps &amp; lotus flowers &amp; said, <i>"This is the last re-birth"</i></li> <li>Prophecy become King or Holy Man</li> <li>4 sights – Old age; illness; death; Holy man – leave palace</li> </ul>	<ul> <li>Buddha's asceticism &amp; enlightenment</li> <li>Lived as an ascetic for 6 years – fasting; sleeping on thorns</li> <li>Meditated under Peepul tree &amp; tempted Mara &amp; daughters</li> <li>Earth to witnessed enlightenment</li> <li>3 watches: knowledge of past lives; understood cycle of re-birth; beings suffer due to attachment</li> <li>Buddha means "enlightened one"</li> <li>Taught 5 ascetics - Middle way</li> </ul>	<ul> <li>Dhamma – the Buddha's teachings</li> <li>Seen as truth but not to be worshipped</li> <li>Analogy of raft – once used, do not cling to it</li> <li>One of 3 refuges/jewels (with Buddha and Sangha) so trust they relieve you from suffering</li> </ul>	<ul> <li>5 precepts – Rules to follow – He Should Stop Lying Immediately</li> <li>Abstain from Harming Life</li> <li>Abstain from Taking what is not Given (Stealing)</li> <li>Abstain from Sexual Misconduct</li> <li>Abstain from False speech (lying)</li> <li>Abstain from Intoxicants (drugs &amp; alcohol)</li> </ul>
<ul> <li>Dependent Arising – everything dependent on conditions</li> <li>All is connected and not independent, in constant process of change e.g. tree dependent on soil and weather</li> <li>Tibetan wheel of life illustrates this</li> <li>Outer wheel 12 nidanas or stages of birth, death, re-birth</li> <li>Kamma shows dependent arising as happiness depends on past actions</li> <li>Attain nirvana when break craving</li> </ul>	<ul> <li>3 Marks of existence - DAA</li> <li>Dukkha – suffering- 3 types – ordinary; due to change; due to attachment</li> <li>Anicca – impermanence – everything always changing affecting – living things; non-living things; people's minds. Story of Kisa Gotami &amp; mustard seed</li> <li>Anatta – no permanent self – no fixed part – Nagasena &amp; chariot</li> </ul>	<ul> <li>4 Noble Truths – truths about suffering</li> <li>1) Existence of suffering (dukkha) – suffering exists &amp; all experience it</li> <li>2) Causes of suffering (samudaya) – tanha (craving) main cause of suffering due to 3 poisons</li> <li>3) Ending of suffering (nirodha) – overcome craving &amp; ignorance</li> <li>4) Cure for suffering (magga) – follow 8-fold path</li> <li>Follow 3 refuges to understand 4 Noble Truths</li> </ul>	8 Fold Path – overcoming suffering Vampires in Space Always like Eating Moaning Children Also known as the threefold way Wisdom (Panna): Right view; Right Intention Ethics (Sila): Right Speech; right Action; Right Livelihood Meditation (Samadhi): Right effort; Right Mindfulness; Right Concentration
<ul> <li>3 poisons</li> <li>Greed – craving all things</li> <li>Hatred – towards others</li> <li>Ignorance – of the dhamma</li> </ul> Arhat (Perfected person Theravada) <ul> <li>Followed the 8-fold path</li> <li>Overcome 3 poisons &amp; enlightened</li> <li>No-longer re-born</li> </ul>	<ul> <li>5 Skandhas – aggregates (Theravada) Beings made of parts – no self (anatta)</li> <li>Form - body</li> <li>Sensation – feelings/sensations</li> <li>Perception – recognising things</li> <li>Mental formation – thoughts/opinions</li> <li>Consciousness – awareness of world</li> <li>Bodhisattva – enlightenment being (Mahayana)</li> <li>Have achieved enlightenment through 6 perfections</li> <li>Remain in samsara to help others be enlightened (vow to do this)</li> </ul>	<ul> <li>Sunyata – Emptiness (Mahayana)</li> <li>There is no independent soul or self (anatta)</li> <li>Everything exists in relation to other things</li> <li>All things are dependent - needs to be trust, compassion &amp; selflessness</li> <li>6 Perfections</li> <li>Generosity – to be generous in all things</li> <li>Morality – follow 5 precepts</li> <li>Patience – patient with all</li> <li>Energy – needed to keep on path</li> <li>Meditation – concentration &amp; awareness</li> <li>Wisdom – obtain understanding</li> </ul>	<ul> <li>Buddha Nature (Buddhahood)</li> <li>All Buddha nature inside them</li> <li>Buddha nature is hidden by desires, attachment, ignorance</li> <li>Buddha nature like honey surrounded by bees</li> <li>All potential for enlightenment</li> <li>Pure Land (Mahayana)</li> <li>Based on faith in Amitabha Buddha</li> <li>Recite Amitabha in hope of being re-born &amp; enlightened in pure land</li> <li>Recite scriptures; meditate on Amitabha; worship Amitabha; chanting name; offerings to him</li> </ul>

# Sport Science // Year 9 & 10 // Terms 1-6

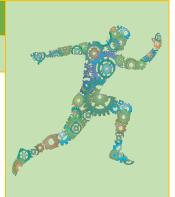
Cambridge National Level 1 / 2 Sport Science R181: Applying the principles of training: fitness and how it affects skill performance

#### Prior Learning Links

- Knowledge of basic components of fitness from Core PE.
- Some knowledge of basic fitness tests such as MSFT.
- Completed unit of work on "Fitness" in Years 7&8 in Core PE.
- Some links to questions in exam paper for R180.

**Future Learning Links** 

• BTEC Level 3 Unit 2 – Fitness Training and Programming.



KEY VOCABULARY	
	& TERMINOLOGY
Topic Area 1: Components of fitness applied in sport	Topic Area 2: Principles of training in sport
<ul> <li>Key Terms:</li> <li>Strength – the extent to which a muscle or muscle group can exert force to overcome a resistance, e.g in weightlifting</li> <li>Power – exerting muscular force (strength) with speed, e.g. 100m sprint</li> <li>Agility – the ability to change direction at speed while remaining in control of movement, e.g. sidestepping an opponent</li> <li>Balance – the ability to maintain the centre of mass over the base of support, e.g. standing on one leg</li> <li>Flexibility – the range of movement around a joint, e.g. performing the splits</li> <li>Muscular endurance – the ability of the muscles to repeatedly contract without fatiguing/tiring</li> <li>Cardiovascular endurance – the ability of the heart and lungs to meet the oxygen demands of the muscle over a prolonged period of time</li> <li>Speed – how fast an athlete covers a premeditated distance</li> <li>Fatigue – extreme tiredness from mental or physical exertion</li> <li>Stamina – the term used to describe the body's ability to sustain physical activity for a long time</li> <li>Coordination – the ability to use two or more body parts at the same time with efficiency</li> <li>Reaction time – how long it takes to respond to a stimulus</li> <li>Pressurised drill – an activity within a training session which has an added element of competition such as being timed or up against an opponent</li> </ul>	<ul> <li>Key Terms:</li> <li>Progression – gradual increases or movements towards a goal</li> <li>Overload – doing more than what was done in a previous session to ensure continued results</li> <li>Frequency – how regularly an individual trains, i.e. times a person trains per day, week or month</li> <li>Intensity – how hard an individual works during a session</li> <li>Time – how long an individual exercises for</li> <li>Type – the method of training adopted by the participant, e.g. circuit training</li> <li>Specificity – training which improves a component of physical or skill-related fitness related to an individual's goal, sport or activity of choice</li> <li>Reversibility – the regression in physical fitness or ability after a prolonged period of inactivity</li> <li>Specific – how relevant goal is to the performer or their role in that sport</li> <li>Measurable – a goal which is not impossible to meet</li> <li>Realistic – a goal which is within the capabilities of the performer</li> <li>Time-bound – a goal which is set a duration in which it is to be achieved</li> </ul>

# Topic Area 3: Organising and planning a fitness training programme

#### Key Terms:

- Injury history whether an individual has had any physical niggles in the past which may affect the planning of a training programme.
- Aims the ultimate goals that the training programme hopes to achieve
- Objectives the measurable, intermediate steps that help and athlete check progress leading to the ultimate goal
- ✓ Suitability whether or not a training programme is appropriate enough for an individual's needs
- Adaptability the extent to which a programme can be manipulated in response to an unforeseen event or new demands
- FITT an acronym for the principles of progressive overload which should be incorporated into any successful training programme (Frequency, Intensity, Time, Type)
- Reflection coaches and athletes taking time out to check on strengths, weaknesses and progress – to help formulate future plans
- ✓ Facilities the location or amenities needed to take part in sport or physical activity
- Equipment the items or resources which are needed to perform a certain sport or physical activity
- Risk assessment a pre-exercise safety measure carried out to identify hazards and arrange appropriate controls
- Testing a way of evaluating a training programme by comparing a fitness component before and after the training block.
- SMART goals the targets that an individual sets themselves for a fitness training programme which applies different principles ensuring its effectiveness

**<u>Topic Area 4</u>**: Evaluate own performance in planning and delivery of a fitness training programme

#### Key Terms:

- Protocol the set of instructions involved in carrying out a fitness test
- ✓ Sequence the order in which a series of tests are carried out
- Validity whether a test actually measures the component of fitness that it intends to
- Reliability the ability of a test to produce the same outcome if performed exactly the same
- Practicality the feasibility of a test protocol or its ease of implementation with respect to time, equipment, space and individuals
- Normative data the typical age and gender matched fitness test results of a larger population, used for comparative purposes
- Average the mean value of a set of fitness results
- Rating the descriptor given to a test result that helps categorise or group together sets of results
- ✓ Gender whether an individual considers themselves as male, female or another identity will affect how they are scored in a fitness test
- ✓ Age how old or young an individual is, which impacts their expected fitness test result
- Standardisation an established set of procedures which are reproduced every time to ensure consistency in both inter and intra individual testing
- Comparison analysing the results from two different individuals or groups and measuring them against each other
- Accuracy the extent to which a test result is recorded with precision
- Procedure the sequence of steps for carrying out a task
- Units the quantity given for a particular measurement

#### 1. How are components of fitness relevant to different sports?

2. Can you justify why different components of fitness are relevant for different sports?

Red Amber Red Amber

1

#### **Components of Fitness**

Think about which components of fitness are needed to complete the challenges set for the sports stars below

enge: To steal the ball and sidestep an op	
Component of fitness	Definition

-

Simon	e Biles (gymnastics)
enge: To execute the double layout floor e	exercise to a high standard.
Components of fitness	Definition
100 C	

3.	What fitness tests are used for each component of fitness?	Red	Amber	Green
4.	Can you apply the components of fitness to a skilled performance?	Red	Amber	Green

#### Fitness Tests

Fill in the missing appropriate fitness tests:

Component of Fitness	Appropriate fitness test
Agility	
Cardiovascular endurance	Multistage fitness test
Muscular endurance	Press up test
Speed	30m speed test
Strength	
Power	Standing long jump
Flexibility	
Balance	Stork stand test
Coordination	

5. What are the principles of trai	ining? Amber	Green
Principles of Training		
ill in the blanks for the following c	definitions of the FITT principles:	
• Fr qu e cv – the nu	umber of times you train per week (how often)	
_ · /	rd you train during each training session (how hard)	
/		
	each training session (how long)	
<ul> <li>T_p_ – the method of</li> </ul>	f training used during each training session (which training meth	nod)
6. What are SMART goals?	Red Amber	Green
MART Goals		
Match up the SMART principles be	low with their definitions	
		-
Specific	It should be possible to reach your goal.	
Specific	It should be possible to reach your goal.	
	Goals should not be vague but should describe what you	
Specific Measurable		
Measurable	Goals should not be vague but should describe what you want to achieve in detail.	
	Goals should not be vague but should describe what you	
Measurable	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y	
Measurable	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y	/ou
Measurable Achievable	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y complete them. It should be clear when your goals should be achieved by.	/ou
Measurable Achievable Realistic	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y complete them. It should be clear when your goals should be achieved by. A goal should be something that is possible given your	/ou
Measurable Achievable	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y complete them. It should be clear when your goals should be achieved by. A goal should be something that is possible given your individual circumstances, e.g. the amount of time you can	/ou
Measurable Achievable Realistic	Goals should not be vague but should describe what you want to achieve in detail. Goals should be tracked in order to see your progress as y complete them. It should be clear when your goals should be achieved by. A goal should be something that is possible given your	/ou

#### 7. What are methods of training and their advantages/disadvantages? Red Amber Green Methods of Training

Complete the table below to describe the characteristics of the exercises/training methods and the advantages and disadvantages of each.

Exercise/ training method	Aerobic, Anaerobic or both?	Advantages	Disadvantages
Walking around the room/hall/track for 1 minute			
jogging on the spot for 30 seconds			
Sprinting on the spot for 10 seconds			
Weaving in and out of 10ms of cones			
Sprinting to a cone 10m away and walking back			
Sprinting to a cone 10m and sprinting back			
Enacting a first and second tennis serve			
Performing four different static stretches for 10-12 seconds each			

8. What factors should programme?	d you consider when de	signing a fitness training	Red	Amber	Green
Designing a Fitness Prog	<u>gramme</u>				
Circle the 5 most import	tant factors to consider	when designing a fitness tra	aining progra	amme:	
Method	d used Current f	itness levels Sat	fety/risk ass	essments	
Duratio	n Previous	injuries Su	itable activit	ties	
Name	Session a	ims Ap	plication of	SPOR	
Age	Athlete g	oals Pro	ogression		
Aims	Equipme	nt/ facilities needed Ob	jectives		
9. How do you apply t	he principles of training	g to a fitness programme?	Red	Amber	Green

#### **Principles of Training**

Read what each athlete says below about their training and give them advice on how they could apply the most relevant principle of training to their situation

	I have managed to stay fit and active over the years and continue to run recreationally, but I am frustrated by the fact that I can no longer run at the same pace I did when I was racing.	
838	I always lift the same weights at the gym as I'm comfortable with this but I don't seem to feel any fitter or stronger.	

•	ou plan a fitness programme?		Red	Amber	Greer
1. How do y	ou record your results from a fitness trai	ining programme?			
Planning a Fit	tness Programme				
<sup>.</sup> hink about t	he information that goes into a training p	rogramme. Fill out th	e worksl	neet below to begin tl	he
lanning prod	cess.				
					_
Suit	itable warm up and cool down	Suitable main ar	thuitles		a I
	itable warm-up and cool-down	Suitable main ac		examples suitable to a range	1
(Thi	itable warm-up and cool-down nk about the different components of warm-ups and I-downs and how exercises may vary for			examples suitable to a range	
(Thi	nk about the different components of warm-ups and	(Can you think of differ		examples suitable to a range	
(Thi cool	nk about the different components of warm-ups and I-downs and how exercises may vary for	(Can you think of differ		examples suitable to a range	
(Thi	nk about the different components of warm-ups and I-downs and how exercises may vary for	(Can you think of differ		examples suitable to a range	1
(Thi	nk about the different components of warm-ups and I-downs and how exercises may vary for	(Can you think of differ		examples suitable to a range	

Coaching points (What instructions might coaches provide to improve the performance of different skills and techniques?)

Duration of plan (What factors would influence the optimum duration of the programme?)

Duration of sessions (What factors might influence the duration of a training session?)

Monitoring progression and adaptability (How is progress monitored and how might a training session or mid-term testing result in adaptation of the programme?) Equipment and facilities (What different equipment and facilities are needed for different sports and activities?)

12. What are the strengths and areas for improvement for your fitness	Red	Amber	Green
training programme?			
Characteristics and Aussis for Incompositions and			

#### **Strengths and Areas for Improvement**

It is important to evaluate the effectiveness of a fitness programme. Think about the strengths and weaknesses of your fitness programme. Things to consider are:

- $\checkmark$  The level of success based on whether or not the goals were met
- ✓ Whether the training methods were appropriate for the participant
- $\checkmark$  If the programme was tailored to the individual needs of the subject
- ✓ Whether the programme was fully adhered to (if not, why not?)

	Strengths	Areas for improvement	
ľ			

HOME LEARNING TASKS					
Task Description				Done?	
1)	<b>Complete Checkpoint 1 &amp; 2 on the EverLearner at a minimum grade of</b> <b>70%</b> <i>"Components of fitness applied to sport"</i>	8			
2)	<b>Complete Checkpoint 3 &amp; 4 on the EverLearner at a minimum grade of</b> <b>70%</b> <i>"Applying the principles of training: fitness and how it affects skill performance"</i>	8			
3)	<b>Complete Checkpoint 5 on the EverLearner at a minimum grade of</b> <b>70%</b> <i>"Organising and planning a fitness training programme"</i>	8			
4)	<b>Complete Checkpoint 6 on the EverLearner at a minimum grade of</b> <b>70%</b> <i>"Evaluate own performance in planning and delivery of a fitness</i> <i>training programme"</i>	8			

# Sport Science // Year 9 & 10 // Terms 1-6

#### Cambridge National Level 1 / 2 Sport Science

#### Unit R182: The body's response to physical activity and how technology informs this.

#### **Prior Learning Links**

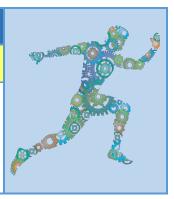
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• Knowledge of basic anatomy and physiology from Core PE.

R181 and Core PE.

Knowledge of sporting examples

- Future Learning Links
  - Some links to questions in exam paper for R180.
  - BTEC Level 3 Unit 1 Anatomy and Physiology



KEY VOCABULARY						
KEY WORDS & TERMINOLOGY						
Topic Area 1: The cardio-respiratory system and how the use of technology supports different types of sports and their intensities	Topic Area 1 (Continued):					
<ul> <li>the use of technology supports different types of sports and their intensities</li> <li>Key Terms:</li> <li>Atria - upper chambers of the heart that collect blood from veins.</li> <li>Ventricles – lower chambers of the heart that pump blood out through arteries.</li> <li>Valves - prevent the backflow of blood.</li> <li>Deoxygenated – venous blood (in veins) that does not carry oxygen.</li> <li>Oxygenated - arterial blood (in arteries) that carries oxygen.</li> <li>Arteries - blood vessels that mainly carry oxygenated blood away from the heart.</li> <li>Capillaries - tiny, thin walled blood vessels that join arteries (which carry blood away from the heart).</li> <li>Alveoli - tiny air sacs in the lungs.</li> <li>Veins - blood vessels that mainly carry deoxygenated blood back to the heart.</li> <li>Trachea - tube connecting the mouth and</li> </ul>	<ul> <li>Vasodilation - widening in the diameter of a blood vessel to increase blood flow through that vessel.</li> <li>Cardiac output – the volume of blood that the heart is able to pump out in one minute.</li> <li>Stroke volume – the volume of blood that leaves the heart during each contraction.</li> <li>Systolic blood pressure - blood pressure when the heart is contracting.</li> <li>Diastolic blood pressure - blood pressure when the heart is relaxed.</li> <li>Inhalation - breathing in.</li> <li>Exhalation - breathing out.</li> <li>Intercostal muscles - muscles located between the ribs.</li> <li>Diffusion - the movement of a gas from an area of high concentration to an area of low concentration.</li> <li>Wearable technology - technology worn on the</li> </ul>					
<ul> <li>nose to the lungs.</li> <li>Lungs - large spongy organs in chest; used for gas exchange.</li> <li>Bronchi - airways that lead from the trachea into the lungs.</li> <li>Bronchioles - air passages inside the lungs that connect the bronchi to the alveoli.</li> <li>Diaphragm - dome-shaped muscle causing inhalation and exhalation.</li> <li>Radial pulse - heart rate that can be felt at the wrist.</li> <li>Carotid pulse - heart rate that can be felt at the neck.</li> <li>Vasoconstriction – reduction in the diameter of a blood vessel to reduce blood flow through that vessel.</li> </ul>	<ul> <li>body during exercise to provide data.</li> <li>Laboratory-based technology - the use of technology inside a laboratory to provide data.</li> <li>Field-based technology - technology that can be used to provide data outside of a laboratory in the setting where sports take place, for example a football pitch.</li> <li>Spirometer - machine that produces a spirometry trace of breathing volumes.</li> <li>Vital capacity – amount of air expelled from your lungs when you take a deep breath and then exhale fully.</li> <li>Pulse oximeter – device used to measure how efficiently oxygen is being carried to the extremities by the heart (blood oxygen level).</li> </ul>					

Topic Area 2: The musculo-skeletal system and how the use of technology supports different types of sports and their movements

#### Key Terms:

- ✓ Clavicle the collarbone.
- ✓ **Scapula** the shoulder blade.
- ✓ Humerus bone in the upper arm.
- Radius bone of the forearm; attaches to the thumb side of the wrist.
- ✓ Ulna bone of the forearm; forms the point of the elbow.
- Cranium skull bone, which surrounds the brain.
- **Ribs** bones surrounding the heart and lungs, forming the chest cavity.
- ✓ Sternum flat bone at the front of the chest, sometimes called the breastbone.
- Vertebrae many single bones joined together to form the backbone.
- ✓ Femur long bone of the thigh or upper leg, which extends from the hip to the knee.
- Tibia the shin bone; forms knee joint with the femur.
- Fibula bone in the lower leg that forms the ankle.
- ✓ Patella the kneecap; covers the knee joint.
- ✓ Deltoids muscles on shoulder joint that move the upper arm.
- ✓ Trapezius muscle at the top of the back that moves the scapula and head.
- ✓ Latissimus dorsi muscle at the side of back that moves the upper arm.

Topic Area 3: Short-term effects of exercise on the cardio-respiratory and musculo-skeletal systems

#### Key Terms:

- ✓ Anticipatory rise slight increase in heart rate before exercise.
- Heart rate Number of times the Heart beats per minute
- ✓ Stroke volume Volume of blood that leaves the Heart during each contraction
- Cardiac output Volume of blood that the Heart pumps out in one minute
- Breathing rate Number of breaths taken per minute
- ✓ Gaseous exchange The exchange of gases in the lungs (Oxygen in – Carbon dioxide out)
- ✓ ROM Range of movement at joints

#### Topic Area 2 (Continued...):

- Pectorals muscles in the chest that move the upper arm.
- ✓ Biceps muscles at the front of the upper arm.
- ✓ Triceps muscles at the back of the upper arm.
- ✓ Abdominals stomach muscles that protect internal organs.
- ✓ Gluteals buttock muscles, which are used when running.
- Hamstrings muscles at the back of the upper leg.
- Quadriceps muscles at the front of the upper leg.
- ✓ Gastrocnemius one of the calf muscles; used in walking.
- ✓ **Soleus** one of the calf muscles; used in walking.
- ✓ **Synovial joint** a freely moveable joint.
- Ball and socket joint ball shaped end of bone fits into the socket of another, for example the hip.
- Hinge joint end of bone fits against another bone allowing movement in only one direction, for example the knee.
- ✓ Gliding joint one bone can slide over another, for example the carpals in the wrist.
- Pivot joint rounded end of one bone fits into a ring formed by the other bone, for example the vertebrae of the neck, which allow head rotation.

n the Topic Area 4: Long-term effects of exercise on the cardio-respiratory and musculoskeletal systems

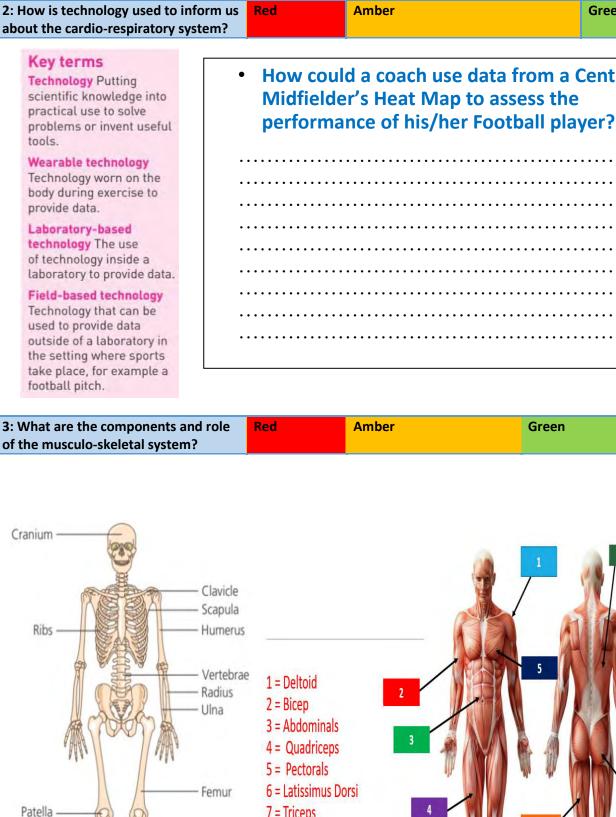
#### Key Terms:

- Fast twitch fibres muscle fibres that contract quickly and/or with high force; used during highintensity work.
- ✓ Slow twitch fibres muscle fibres that contract with a low force but do not fatigue quickly.
- ✓ Bradycardia decrease in the resting heart rate because of training.
- ✓ Goniometer device used to measure flexibility (range of movement at a joint).
- ✓ Lung capacity the amount of air the lungs can hold.
- Tidal volume the amount of air breathed in and out at rest.
- ✓ Bone density the amount of bone mineral in bone tissue.
- ✓ Capillarisation an increase in the number of capillaries as a result of endurance training.

blocked or interrupted by a build-up of fatty substances in the coronary arteries that supply the heart with blood. ✓ Heart attack – medical emergency in which the supply of blood to the heart is suddenly blocked.
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1: What is the function and role of the cardio-respiratory system?	Red	Amber	Green
What is Heart Rate and	d how is it ı	measured?	
•••••	•••••	•••••	•••••
••••••	•••••	•••••	••••••
What is Stroke Volume	e?		
•••••	•••••	•••••	•••••
What is Cardiac Output			
••••••	•••••	•••••	•••••
What is Breathing Rate	e and how i	s it measur	ed?
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• What is Tidal Volume?	)		
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• What is Gaseous Excha	ange?		
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Fibula



8 = Gluteal

Tibia

- 9 = Hamstring
- 10 = Gastrocnemius
- 7 = Triceps

2: How is technology used to inform us

How could a coach use data from a Central

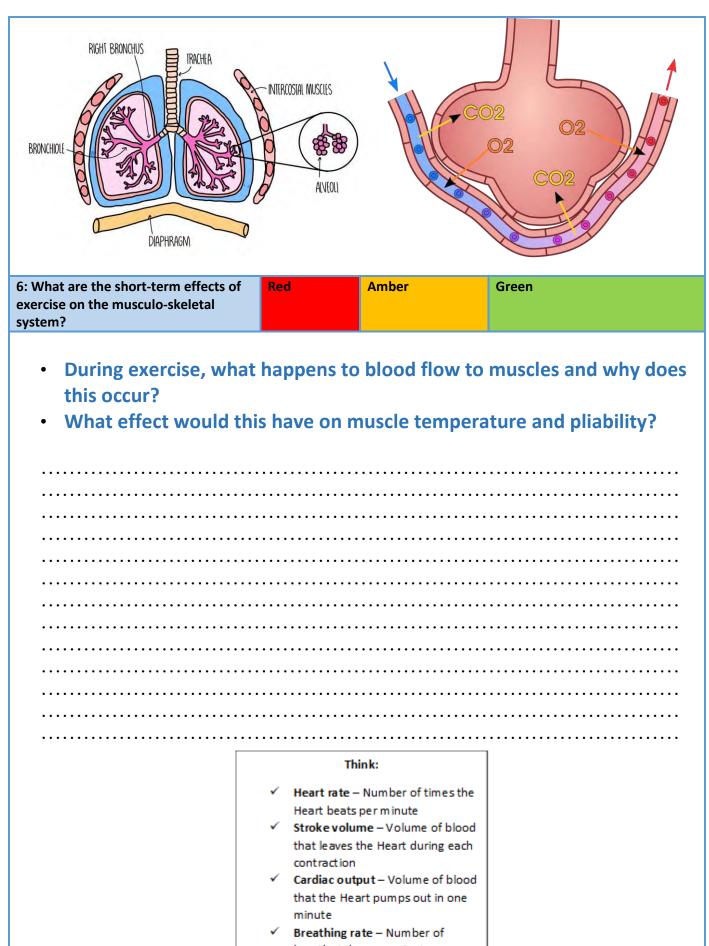
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4: How is technology used to inform us	Red Amber	Green
about the musculo-skeletal system? <ul> <li>How could a High Junthe data gathered from Capture to assess the his/her athlete?</li> </ul>	m Slow Motion performance of	
5: What are the short-term effects of	Red Amber	Green
exercise on the cardio-respiratory system?		
• What would you no Output during exerc	cise?	your Heart Rate and Cardiac
• What would you no Output during exerc	cise?	
what would you no Output during exercise?	tice occurring to	your Breathing Rate during
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breaths taken per minute
 Gaseous exchange – The

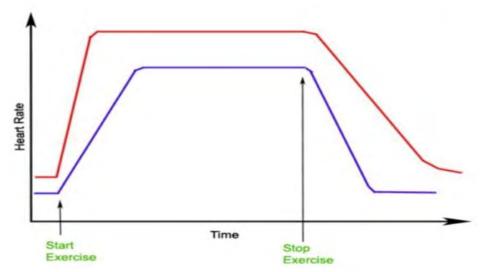
Long-term effects of exercise on the cardio-respiratory system occurs to:

Amber

Green

Red

- Heart Rate
- Stroke Volume
- Cardiac Output
- Heart Rate recovery
- Lung capacity
- This graph shows the Heart Rates of two performers running 100m. One of them is fit, while the other is unfit. Which is which? Back up your answer with two reasons as to why you have come to your conclusions. (4 marks)



## Long-term effects of exercise on the musculo-skeletal system occurs to:

Red

- Changes in muscle size
- Changes in strength
- Changes in flexibility
- Quicker muscle recovery

## Changes in flexibility

Regular training brings about changes in flexibility [the range of movement at a joint]. Because they are being used more often, muscles, tendons and ligaments around joints become stronger. This helps improve the stability of the joints as well as their flexibility. More flexibility means an increased range of movement. Because of training, performers are able to stretch and reach further without injuring themselves. Changes in flexibility can be measured objectively by performing flexibility tests, such as a sit-and-reach test or by using a goniometer.

 The long-term changes to an athlete's flexibility due to training will enable them to perform at a much higher level than someone who has not been training over time. How would their performances in Badminton differ? Give two explicit examples of how flexibility benefits Badminton performance. (4 marks)

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HOME LEARNING TASKS			
Task Description			Done?
E B C C S	Complete Checkpoint 1 on The EverLearner at a minimum grade of 70%: "The cardio-respiratory system and how the use of technology supports different types of sports and their intensities"		
E B C C S	Complete Checkpoint 2 on The EverLearner at a minimum grade of 70%: "The musculo-skeletal system and how the use of technology supports different types of sports and their movements"		
E	Complete Checkpoint 3 on The EverLearner at a minimum grade of 70%: "Effects of Exercise"		

## Subject Art Year 10 Term 1 & 2 'Structures'

Term Focus – Select and hone skills acquired in Year 9 through the theme 'Structures' (2D/3D)

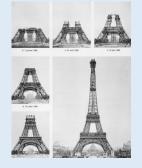
In **art**, the term **structure** pertains to the arrangement and mutual relation of the part of the body, object or composition. **Structure** refers to the relation of parts, to the relative proportions of the component elements. It also refers to the underlying skeleton which supports the whole figure, giving form to flesh. Investigate how artists use manmade and natural structures to inspire artwork.

Use knowledge of the theme to select and develop personal and meaningful ideas".

#### **Prior Learning Links**

In Year 9 students revisited and built upon drawing, printmaking, painting and 3D skills acquired in Year 8. They continued to repeat and further embed processes of recording, developing, refining, evaluating and realising intentions. This repetition of processes will progress through Year 10 while students embark on more sustained, independent projects in which they will hone their skills and respond to given themes, beginning with 'Structures'. Future Learning Links Students will continue responding to the theme 'Structures'. The focus will shift more towards developing ideas, experimenting with media and completion of one or more final pieces.









<u>The Ultimate Guide on</u> <u>Different Art Mediums –</u> <u>ARTDEX</u>

KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
I will be expected to recall keywords learned in previous projects and use them in the appropriate context. Shape/Form/Scale/Texture/Tone/Colour/ Composition/Primary Source/Secondary Source	Record Develop Refine Realise Evaluate

1.	Can you describe the process of	Red	Amber	Green
	development in artists work?			

Develop ideas through investigations, demonstrating critical understanding of sources (AO1):

I will learn to confidently develop...

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- and hone my observation skills using a range of media, techniques and processes.
- my knowledge and understanding of 2D/3D styles and techniques

## Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

## I will learn how to confidently record...

- images and information appropriate to a given theme of Structures
- · building on my knowledge and understanding of how artists use materials and imagery to create meaningful work

## I will learn how to confidently evaluate...

artists using analytical writing skills and forming opinions





Kate Malone



Barbara Hepworth

James Rosenquist

Red



Georgia O'Keeffe

Green



2. How can the study of other artists help you find your own direction in the development of ideas?

Develop ideas through investigations, demonstrating critical understanding of sources (AO1):

## I will learn how to confidently develop...

- and hone my observation skills using a range of • media, techniques and processes.
- my knowledge and understanding of 2D/3D styles • and techniques
- my drawing and planning skills •
- ideas in response to a given theme, linking to artists work.
- my higher order thinking skills



Amber

In this example, the student is clearly showing how Georgia O'Keeffe is influencing their own work. Consider how you could be inspired by Georgia O'Keeffe?

### Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

### I will learn how to confidently record...

- images and information appropriate to a given theme of • Structures
- using wet and dry media
- using drawing and photography
- building on my knowledge and understanding of how • artists use materials and imagery to create meaningful work
- ideas for a work of art specialising in 2D or 3D
- 3. Why are primary sources are the richest Red Amber Green form of research?

### Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

### I will learn how to confidently record...

- images and information appropriate to a given theme of Structures •
- using wet and dry media •
- using drawing and photography
- building on my knowledge and understanding of how artists use • materials and imagery to create meaningful work
- ideas for a work of art specialising in 2D or 3D •
- 4. How can Secondary sources enrich the Red development of ideas?

### Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

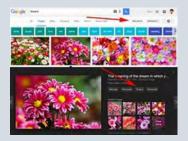
## I will learn how to confidently record...

- images and information appropriate to a given theme of • Structures
- using wet and dry media
- using drawing and photography
- building on their knowledge and understanding of how artists • use materials and imagery to create meaningful work
- ideas for a work of art specialising in 2D or 3D •
- 5. Can you list 5 different ways you could Red Amber Green record observations of the subject matter?

Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

## I will learn how to confidently record...







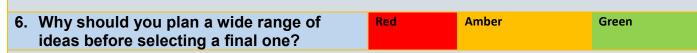


Green

Amber

- images and information appropriate to a given theme of Structures
- using wet and dry media
- using drawing and photography
- building on their knowledge and understanding of how artists use materials and imagery to create meaningful work
- ideas for a work of art specialising in 2D or 3D

Take a photograph, Do a drawing, make a collage, write it down, print it, paint it, model it in 3D....



# Develop ideas through investigations, demonstrating critical understanding of sources (AO1):

## I will learn how to confidently develop...

- and hone my observation skills using a range of media, techniques and processes.
- my knowledge and understanding of 2D/3D styles and techniques
- my drawing and planning skills
- ideas in response to a given theme, linking to artists work.
- my higher order thinking skills



This is a James Rosenquist inspire collage. Consider how you could be inspired by James Rosenquist?

7. Why is it important to annotate work as it progresses? Green

Record ideas, observations and insights relevant to intentions as their work progresses (AO3):

## I will learn how to confidently evaluate...

- analysing and reflecting on the development of my own work
- making connections between my own artists' work
- suggesting ways I could I improve
- 8. How can the refining process help you to fully realise intentions?

Refine work by exploring ideas, selecting and experimenting with media, materials, techniques and processes (AO2):

I will learn how to confidently refine...

- by selecting and experimenting with a range of 2D/3D media and techniques
- by selecting ideas to adapt and improve e.g. adjustments to size, colour and composition.
- through developing a piece of work from one media into another

Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language (AO4):

## I will learn how to confidently realise intentions...

• using 2D/3D techniques and processes

## EVALUATING ARTISTS' WORK

- 1. Describe the piece of art you are looking at
- 2. What is the name of the artist or type of art?
- 3. What art movement or culture does the art link to?
- 4. Research and list 5 or more things about the artist or culture?
- 5. What important things have happened in the country that the art comes from?
- 6. What has influenced the art E.g. other artists, people, personal experiences, society, culture, politics, gender, colour, pattern, movement, religion, travel, places, objects etc.
- 7. Describe the materials used to make the art
- 8. How has the art been produced?
- 9. What is being communicated through the art?
- 10. Which of these words best describes the mood of the picture? EMOTIONAL/POWERFUL/BUSY/SLOW/PEACEFUL/WARM/COLD/HAPPY/SAD/CALM/ INTENSE/SCARY can you think of any other words?
- 11. What do you like or dislike about the picture? Explain your reasons...

## ANNOTATING YOUR OWN WORK

- In this artwork I was trying to...
- The artist/culture that has influenced my work is...
- The source I have used is...
- I found the source I used at...
- In this artwork I used the technique of...
- The media I have used is...
- I like/dislike this piece because...
- My idea links to the theme because...
- I can improve this piece by...
- I could develop this work further by...

## END OF PROJECT EVALUATION

- 1. Describe each stage of the project from start to finish
- 2. What media did you use to produce your work? E.g. Paint/Pencil/Clay etc.
- 3. Describe how you used different techniques in your project? E.g. painting/drawing/modelling with clay etc.
- 4. Which artist's culture have you looked at?
- 5. Write down 2 or more similarities between your work and the artist's work.
- 6. Which piece of your work best shows the Artist's style or the influence of another culture and why?
- 7. Describe some of your own ideas...



Notice how the same idea has been adjusted and made slightly different in each one. This is called REFINING.

See?

Think!

Know?

Think?

Think! What? How?

Why?

- 8. Have you used a primary or a secondary source?
- 9. Have you included the secondary source in your work? Where did you find it?
- 10. Imagine your final piece was displayed in a public place.... Describe the effect looking at your work might have on people and society. E.g. relax them, make them feel sad, curious, happy, angry, thoughtful, surprised, confused, nostalgic etc. explain why e.g. because of your use of colour, images, content, arrangement? etc.
- 11. Explain any other influences on your work e.g. personalities *(including your own)*, places, memories, objects, politics, events, activities, religion, fact, fiction etc.
- 12. Describe how your work links to the project theme?
- 13. Explain what you have done well...
- 14. Explain how you could improve...
- 15. What would you do differently, if you were to repeat any part of this project?

Task Description       Done?         Homework- tasks linked to 'Structures' (2 hours per cycle)       Image: Can you describe the process of development in artists work?         Complete tonal drawing of these Barbara Hepworth Sculptures, use light to heavy pressure and directional shading to make them appear 3D on the page:       Image: Complete tonal drawing of these Data and the page of the process o	
Can you describe the process of development in artists work?         Complete tonal drawing of these Barbara Hepworth Sculptures, use light to heavy pressure and directional shading to make them appear 3D on the page:         Image:       Image:	
<text></text>	
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Can you describe the process of development in artists work?	
Complete a detailed colour pencil drawing from one of these pictures by James Rosenquist:	
<image/>	

Can you describe the process of development in artists work?

Complete a detailed colour pencil drawing from one of these pictures by **Georgia O'Keeffe:** 



Can you describe the process of development in artists work?

Complete a detailed colour pencil drawing from one of these pots by **Kate Malone:** 



Can you describe the process of development in artists work?

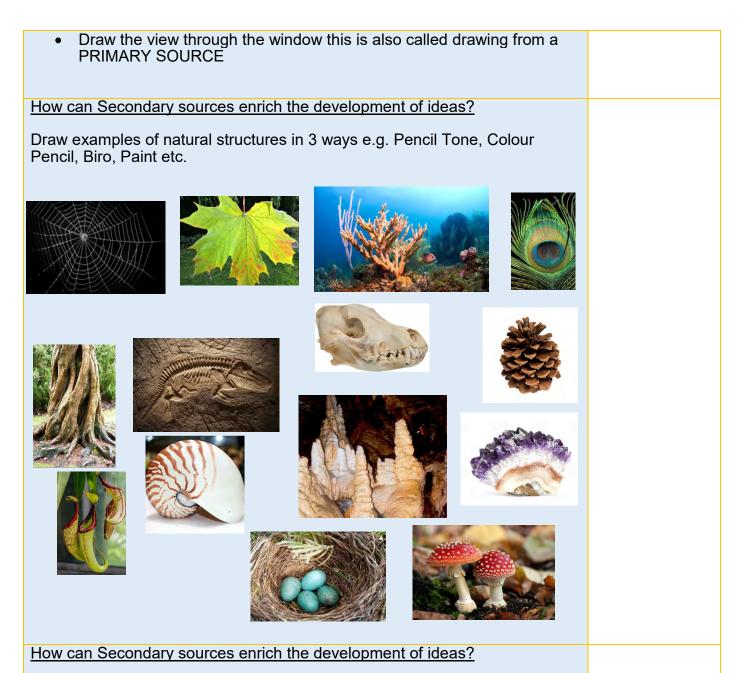
Complete a detailed colour pencil drawing from one of these artworks by **Yayoi Kusama**:



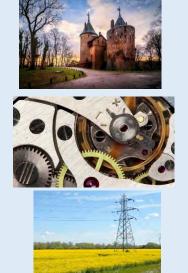


Can you describe the process of development in artists work?

Choose your favourite artist from above and evaluate the work using the 'Evaluating Artists Work' questions from above					
How can the study of other artists help you find your own direction in the development of ideas?					
Yayoi Kusama has been in the news recently with her 'Pumpkin' Sculpture, complete the following tasks:					
<ul> <li>Describe 3 ways you could design and create your own sculpture inspired by Yaoi Kusama's art</li> <li>Which Organic forms do you think have inspired these sculptures?</li> </ul>					
<ul> <li>Design your own sculpture inspired by organic forms and Yayoi Kusama</li> </ul>					
If you are able to access the internet go to the link below and read about the 'Pumpkin'. Answer the following questions:					
How tall is the Pumpkin Sculpture?					
Where is it?					
<ul> <li>What is permanently installed at Benesse Art Site Naoshima Japan?</li> </ul>					
<ul> <li>What are her pumpkins always covered with?</li> </ul>					
What does Kusama admire about pumpkins?					
Yayoi Kusama: Pumpkin - Serpentine Galleries					
<ul> <li>Why are primary sources are the richest form of research?</li> <li>Draw 3 things in the room, this called drawing from a PRIMARY SOURCE</li> </ul>					



Draw examples of manmade structures in 3 ways e.g. Pencil Tone, Colour Pencil, Biro, Paint etc.





Can you match the the the the pictures?

Street, Field, Famous Buildings, Water, Mechanical, Transport, Castles





Can you list 5 different ways you could record observations of the subject matter?

List the 5 different ways to record shown earlier in this KO and then try at least two different ways to record a natural and a manmade structure

Why should you plan a wide range of ideas before selecting a final one?

- Zoom in and enlarge one of these natural forms in the style of Georgia O'Keeffe
- Annotate your work using the 'Annotating my work' section above









Why should you plan a wide range of ideas before selecting a final one?

- Use a piece of tracing paper to trace sections of these manmade structures so they all overlap and merge together in the style of James Rosenquist (if you don't have tracing paper try to do free hand)
- Annotate your work using the 'Annotating my work' section above
- As an extension you could make a collage of pictures you have printed or from a magazine.









Can you guess the theme connecting these pictures?









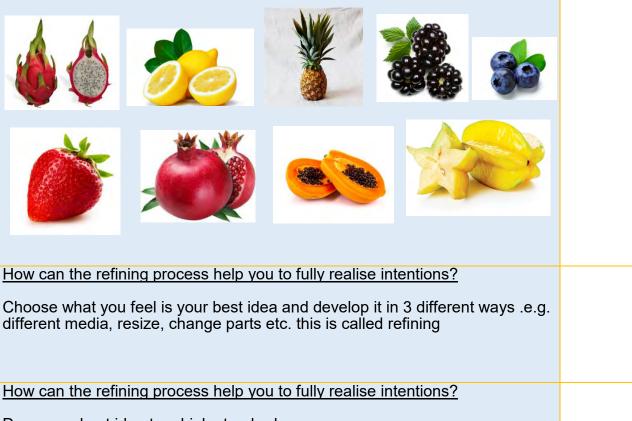
Why should you plan a wide range of ideas before selecting a final one?

- Simplify details from these musical instruments and see if you can design 3 different sculptures inspired by Barbara Hepworth
- Annotate your work using the 'Annotating my work' section above



Why is it important to annotate work as it progresses?

- Use the fruit pictures below to help you design 3 different pots inspired by Kate Malone
- Annotate your work using the 'Annotating my work' section above



Draw your best idea to a high standard

#### Drama Year 10 Term 1 Performing a Script

#### <u>Term Focus</u>

You will learn how to:

- Build upon your understanding of performance skills both through theoretical and practical explorations.
- Review knowledge from last term and develop an understanding on how to apply this information to a script. Rather than focusing primarily on the acting, this unit encourages pupils to look at the bigger picture.
- Create and perform your own performances whilst collaborating with others developing your teamwork, communication and problem-solving skills.
- Evaluate your own work in addition to the work of your peers.

#### Prior Learning Links

- Drama and Theatre Roles
- Physical and Vocal Interpretations
- Approaching a Script Stage Types
- An Introduction to Practitioners
- Genres and Styles
- Interpreting Theatre

## Future Learning Links

- Responding to a Stimulus this is preparation for Unit 1
- Students will continue to develop key practical skills such as performance and drama techniques.
- Apply knowledge to exam style questions.

#### **KEY VOCABULARY: PERFORMANCE SKILLS**

Planned Movement	Physical actions that are organized prior to the performance and
	Physical actions that are organised prior to the performance and then rehearsed.
Positioning	Arranging an actor in a place/way. Where the actor is facing.
Posture	How the body is held.
Body Language	Movements with the body, that communicate feeling.
Eye Contact	Where the actor is looking.
Discipline	The ability to maintain commitment in conveying a character on stage.
Space	How the environment is used.
Levels	How high or low an actor is positioned on stage.
Vocal Skills	How the voice is used to communicate emotion and character.
Gestures	Using your hands to further express meaning or emotion.
Facial Expressions	Showing mood through the movement of your face.

Performance Skills are used by an Actor to convey a character.

## **KEY VOCABULARY: DRAMA TECHNIQUES**

Drama Techniques are used in an abstract performance, to present an idea in an alternative way.

Thought Tracking	A character telling the audience their thoughts and feelings about the situation on stage. All other actors remain in a still image. The Actor breaks down the fourth wall of Actors and audience.
Still Image	. A frozen moment in a scene.
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Monologue	A speech spoken by one character.
Choral Speaking	A group of actors speaking at the same time.
Slow Motion	Changing the pace of movement/speech in order to emphasis that specific moment. The speed to complete the action takes longer.
Flashback	A scene from the past
Cross Cutting	Mixing up the order of scenes, so the order is no longer chronological.
Narration	A spoken commentary for the audience about what is happening on stage.
Organic Sound	Sounds created by the Actors (not recorded).
Synchronisation	Actors moving at the same time.
Canon	Performing the same action one after another.
Multi-role	One actor taking on more than one role in a performance.
Hot Seating	Questioning an Actor and the Actor responds as the character they are playing. This is a key rehearsal technique.
Physical Theatre	Using your body to communicate an idea.
Mime	Performing actions without talking and without the aid of props.
Mirroring	2 Actors facing one another and moving at the same time as if they were a reflection of each other.
Split – Role	Multiple Actors playing the same role.
Flash Forward	A scene from the future.
Tableau	The bigger picture. A larger scale still image which captures the whole scene or story.
Repetition	Performing an action/word/sound again
Marking the Moment	When a moment in a scene is emphasised. A moment in a scene can be emphasised by one of the drama techniques listed such as slow motion.

1. What needs to be considered when performing a script?	Red	Amber	Green
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## Let's recap what we learned last year:

## Drama and Theatre Roles:

In a performance you must consider the role of everyone in a group; performer, director, costume designer, set designer, lighting designer and sound designer.

## Physical and Vocal Interpretations:

How are you going to include performance and vocal skills in a performance? In order to show a character effectively, you must be able to embody the role of the character you are playing.

## Approaching a Script – Stage Types:

What type of stage are you going to use for your performance?

- Traverse
- Thrust
- Proscenium Arch
- End on Stage
- In the round

When deciding which stage type to use for your performance, ensure you have considered the benefits and disadvantages to each type.

#### An Introduction to Practitioners:

- Brecht
- Stanislavski
- Grotowski
- Rice
- Frantic Assembly

#### Genres and Styles:

- Naturalism
- Abstract
- Musical Theatre
- Physical Theatre
- Melodrama
- Epic Theatre
- Tragedy
- Comedy
- Theatre in Education

#### Interpreting Theatre:

Have you considered the following and how each category can support the narrative of your piece.

- Costume
- Lighting
- Set
- Sound
- Drama techniques
- Performance skills

2. What are the different parts of a play called?	Red	Amber	Green
<u>Script</u> – A whole play <u>Extract</u> – Part of a script taken from a play, a short segment. <u>Monologue</u> – Performance by one person <u>Duologue</u> – Performance by two people <u>Group/Ensemble</u> – Performance of three people of more		-	
3. What are the different rehearsal techniques called?	Red	Amber	Green
Rehearsal Techniques are used to support Actors when performing a play. The and knowledge an Actor has over the character they are playing, the better their Suitable rehearsal techniques could include:	•		•
Status games - the technique would help the actor understand the power and on the other characters within this extract.	control t	hat he has	s over

<u>Hot seating</u> – the questioning of characters in role – this would help the actor understand their motivation with this extract.

<u>Freeze frames</u> – a still position demonstrating a key moment in time - this could help the actor explore their relationships with the other characters.

Role on the wall – allows the performer to consider information about the character they are playing.

HOME LEARNING TASKS	
Task Description	Done?
Use 'Look, Cover, Write, Check' to learn the Key Vocabulary	
Write a paragraph demonstrating your understanding of each of the elements learned last term. - Drama and Theatre Roles	
- Vocal and Physical Interpretations	
- Approaching a Script – Stage Types	
- An Introduction to Practitioners	
- Genres and Styles	
- Interpreting Theatre	
Write an example of the following:	
- A monologue – based on the importance of internet safety.	
- A duologue – based on two siblings experiencing a troubled relationship.	
- A script – write your own version of 'Matilda' in a script format.	
Choose a fictional character from your favourite book or movie. Write down 6 hot seating questions along with your character's responses.	
Devise a role on the wall for your character explored in the previous question.	

#### Dance Year 10 Term 1 Dance – A Linha Curva

#### **Term Focus**

You will learn how to:

- Explore practically and theoretically A Linha Curva. A Linha Curva is an anthology work from the written exam paper which requires analysis and evaluation. This is 1 out of 6 works which need to be explored.
- Perform to peers using knowledge developed of physical, expressive, mental and technical skills.
- Evaluate your own work and the work of others using correct terminology.
- Develop the link between the knowledge developed through practical exploration and how this applied to exam style questions from a theoretical standpoint.

#### Prior Learning Links

- Students will have developed a foundation of physical, expressive, mental and technical skills.
   Students will need to continue to develop their understanding of these skills in preparation for their practical exam in Y11. Finesse and confidence of these skills is essential.
- The skills pupils have learned previously with regards to performance and choreography will be applied to the exploration of each anthology work.

#### Future Learning Links

 There are 6 anthology works in total. Students will look apply their skills to a second work next term in order to develop a practical and theoretical understanding which they can apply to the written paper of the exam.







#### **KEY VOCABULARY: PHYSICAL SKILLS**

Physical Skills enable a dancer to physically complete the action therefore giving an effective performance.

#### TOP TIP: We use BASIC SPEC FM to help us remember these skills.

Balance	A steady or held position achieved by an even distribution of weight.
Alignment	The correct placement of body parts in relation to each other.
Stamina	The ability to maintain energy over a period of time.
Isolation	An independent movement of part of the body.
Control	The ability to stop and start movement, change direction and hold shape efficiently.
Strength	Muscular Power.
Posture	The way the body is held.
Extension	The lengthening of muscles or limbs.
Coordination	The ability to move 2 or more body parts at the same time efficiently.
Flexibility	The range of movement at a joint.

KEY VOCABULARY: EX	PRESSIVE SKILLS	
Expressive Skills and	re aspects that contribute to performance artistry and that engage the audience.	
TOP TIP: We use FAT FROGS POUNCE MASSIVELY SIDEWAYS SOUTH to help us remember these skills. FFPMSS		
Facial Expressions	The use of the face to show mood, character or feeling.	
Focus	The use of the eyes to enhance performance or interpretative qualities.	
Projection	The energy the dancer uses to connect with and draw the audience in.	
Musicality	The ability to make the unique qualities of the accompaniment evident in performance.	
Sensitivity to Other Dancers	Awareness of and connection to other dancers. EG: Timing.	
Spatial Awareness	Consciousness of the surrounding space and its effective use .	
KEY VOCABULARY: ME		
	s of a performance/rehearsal process that allow a dancer to be able to ge	
	to the point where they are able to perform.	
	to the point where they are able to perform.	
·	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance.	
·	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for	
PERFORMANCE: We	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance.	
PERFORMANCE: We	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo	
PERFORMANCE: We PROCESS: We use MAS	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process.	
PERFORMANCE: We PROCESS: We use MAS Performance	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process.	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory	to the point where they are able to perform. TOP TIPS e use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SSIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process. MSPRRC	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance.	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence Process	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence Process Mental Rehearsal	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work Thinking through or visualising the dance.	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence Process Mental Rehearsal Systematic Repetition	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work Thinking through or visualising the dance. Repeating something in an ordered way.	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence Process Mental Rehearsal Systematic Repetition Plan a Rehearsal	to the point where they are able to perform. TOP TIPS a use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work Thinking through or visualising the dance. Repeating something in an ordered way. Organisation of when to go over material	
PERFORMANCE: We PROCESS: We use MAS Performance Movement Memory Commitment Concentration Confidence Process Mental Rehearsal Systematic Repetition Plan a Rehearsal Response to Feedback	to the point where they are able to perform. TOP TIPS Puse MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work Thinking through or visualising the dance. Repeating something in an ordered way. Organisation of when to go over material Implementing changes and making improvements based on feedback given to you.	
PERFORMANCE: We	to the point where they are able to perform. TOP TIPS e use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC SIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills fo process. MSPRRC The automatic recall of learned material without conscious thought. Dedication to a performance. The power to focus all of one's attention The feeling or belief that one can have in one's performance or work Thinking through or visualising the dance. Repeating something in an ordered way. Organisation of when to go over material Implementing changes and making improvements based on feedback given	

Technical Skills refer to the accuracy of content performed in a stylistic way.

Dynamic Content	How a movement is performed. Speed and Flow.
Action Content	What the movement itself is - The 5 basic body actions.
Relationship Content	How movement can be performed when the dancers interact - Contact, mirroring, lead and follow, complementary, contrast, action and reaction, formations, counterpoint and accumulation.
Rhythmic Content	Repeated patterns or sounds.
Timing Content	The use of counts when matching movements to sounds and/or other dancers.
Spatial Content	Where the movement is performed - Levels, size, pathway, direction and design.

Red

Amber

Green

### TOP TIP: We use DARRTS to remember technical skills.

#### What are the key facts linking to A Linha Curva?

Key Facts:

Choreographer: Itzik Galili

Performed by: Rambert Dance Company

**Performance:** Originally performed by Balé da Cidade de São Paulo (Brasil), 2005. Rambert premiere Tuesday 12 May 2009 at Sadler's Wells, London.

Dancers: 28 – 15 male, 13 female

#### Dance Styles:

- Rhythmic pulses
- Samba **Samba** is a fun, upbeat, lively dance that progresses counter-clockwise around the floor. It is characterized by its syncopated timing, bounce, rolling hip action and pelvic tilt and a great deal of rhythm is expressed throughout the torso.
- Capoeira **Capoeira** is an Afro-Brazilian art that combines elements of dance, acrobats and music.
- Contemporary dance **Contemporary** dance is a style of expressive dance that combines elements of several dance genres including modern, jazz, lyrical and classical ballet. Contemporary dancers strive to connect the mind and the body through fluid dance movements.

Structure: Narrative with large ensemble sections

1. What was the choreographic approach for the work?	Red	Amber	Green
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#### Choreographic Approach:

- Task setting creating a phrase restricted by squares
- Collaboration with dancers
- improvisation

When originally creating A Linha Curva, Itzik Galili worked collaboratively with the dancers and nearly all of the motifs were composed from improvisation. One of the tasks set by Galili was quite simple, he asked the dancers to choreograph a very short solo (2 – 3 counts of eight) of some of their favourite moves which stayed within the boundaries of their allocated square within a chequer-board grid (see lighting) that takes up the floor space of the stage. Galili believes that you can see essences of the Page 46 of 77

dancers' personalities in these sequences. Each of these sequences was named after the dancer who made it and the dancers then learnt each other's sequences to form the basis of this large ensemble work.

2. What are the stimuli and choreographic intentions of the work?	Red	Amber	Green		
Stimuli / Choreographic Intention:					
The difference between a stimulus and a choreographic intention is, a stimulus i inspiration for the dance whereas the choreographic intention is what the dance			nt or		
Example: Stimulus – A computer – This is the inspiration. Intention – Cyber Bullying – This is what the dance is about.					
Computer > On the Internet > Social Media > Cyber Bullying					
Stimuli: - Brazilian Culture - Celebration of Brazilian Life - The title 'The Curved Line'					
<ul> <li>Choreographic Intent:</li> <li>Having fun</li> <li>Men competing and show off in front of the women</li> <li>Carnival/ samba parades</li> </ul>					
The intention behind the choreography is simply to have fun. Large ensemble sections of vibrant Brazilian inspired movement are performed in regimental straight lines, creating a sense of samba parade. There are also several narrative sections that through the choreography present observations of how Brazilian men communicate with women, for example men in tribes hunting the girls as well as showing off and competing with each other.					
3. How do the costumes in A Linha Curva contribute to the audience's understanding of the work?	Red	Amber	Green		
Costume: - Designed by Itzik Galili					
Colour: - Bright – pink, yellow, blue, orange, red, green – coloured shorts and colo - Black – vest - Carnival inspired – bright colours are often associated with having fun ar					
Garment/Material: - Lycra shorts - Sleeveless mesh vest - Zip on garment – for women the zip is at the back whereas for men the zip is as the front					
Accessorises: - Men wear metallic discs around their neck at the start which reflect the li	ght				
Footwear: - Bare feet					
Style/Length:					

- Minimal clothing - the lack of clothing represents hot climate and allows dancers to move freely Page 47 of 77

## **Contribution:**

- -
- Highlight location Suggest gender -
- -Create interest
- -Creates mood

- Compliments lighting
  Supports intention of having fun
  Highlights dance style
  Allows movement to be seen clearly

4. How does the aural setting in A Linha Curva contribute to the audience's understanding of the work?	Red	Amber	Green
Aural Setting:			
Aural setting is also known as music or accompaniment. - Performed by Percossa			
Type of Accompaniment: - Body Percussion - Orchestral - Spoken word – vocal chants			
Instruments: - Drums - Body Percussion - Berimbau: Brazilian instrument played in the slow section.			
Speed/Dynamics: - Samba Rhythms - Fast, lively, fun and rhythmic - Contrast is shown through slow section			
<ul> <li>Contribution:</li> <li>Creates mood and atmosphere</li> <li>Compliments movement content</li> <li>Adds interest</li> <li>Highlights choreographic intention</li> <li>Creates contrast</li> <li>Aids movement</li> </ul>			
5. How does the physical setting in A Linha Curva contribute to the audience's understanding of the work?	Red	Amber	Green
Physical Setting:			
Props: - skateboards are used to propel 5 dancers across the stage – connectior	ו to carr	nival floats	;
Performance Environment: - End Stage			
<ul> <li>Set Design: <ul> <li>Black box set</li> <li>Raised platform upstage – 4 live musicians - Equality of musicians and or represents the equality of the two art forms at a carrival</li> </ul> </li> </ul>	dancers	on stage	

- represents the equality of the two art forms at a carnival Large space allows for group unison sections and large formations -

Lighting: - See below – also a separate entity
<ul> <li>Contribution:</li> <li>Allows movement to be seen clearly</li> <li>Creates atmosphere</li> <li>Does not distract audience's attention</li> <li>Highlights intention</li> <li>Highlights gender</li> </ul>
6. How does the lighting in A Linha Curva contribute to the audience's Red Amber Green understanding of the work?
Lighting:
Type of Lighting: - Spotlights - Wash
Colour: - Grid 49 coloured squares – red, yellow, green, blue, orange
Pattern: - Linear patterns: lines and squares
Intensity: - Bright
<ul> <li>Contribution: <ul> <li>Restricts dancers' space</li> <li>Highlights dancers</li> <li>Creates contrast in showing of section: white wash</li> <li>Creates structure - timing and cues for the lighting is pre-programmed and so in a way dictates the speed and pace of the dancing and music</li> <li>Adds to mood</li> </ul> </li> </ul>
7. How does the movement content and use of dancers in A Linha       Red       Amber       Green         Curva contribute to the audience's understanding of the work?       Red       Amber       Green
7. How does the movement content and use of dancers in A Linha Red Amber Green
<ul> <li>7. How does the movement content and use of dancers in A Linha Curva contribute to the audience's understanding of the work?</li> <li><u>Use of Dancers:</u> <ul> <li>Mixed gender – supports theme of men competing for women</li> <li>Gender specific costumes</li> </ul> </li> </ul>
<ul> <li>7. How does the movement content and use of dancers in A Linha Curva contribute to the audience's understanding of the work?</li> <li>Wixed gender – supports theme of men competing for women <ul> <li>Gender specific costumes</li> <li>Content at times gender neutral however other times specific to gender role</li> </ul> </li> <li>Movement Content: <ul> <li>Action</li> <li>Dynamics</li> <li>Space</li> <li>Relationships</li> </ul> </li> </ul>

#### Showing off section:

- Jump, thrust, contract, fall, lie, roll, pose
- Strong, powerful, sharp, staccato, rigid, sudden,
- Travelling on the diagonal US left to DS right.
- Contact. Counterpoint.
- Unison, canon. Repetition

#### Samba:

- Robson Motif
- Fast & punchy vs slow and fluid
- Robson travels forwards from US to DS.
- Linear formations. Counterpoint. Accumulation.
- Unison. Climax

#### Contribution:

- Suggests gender
- Highlights dancers
- Creates contrast
- Adds interest
- Compliments music
- Creates structure
- Shows relationships amongst dancers
- Directs audience's attention
- Adds to mood
- Suggests theme

#### HOME LEARNING TASKS

HOME LEARNING TASKS	
Task Description	Done?
Use 'Look, Cover, Write, Check' to learn the Key Vocabulary	
How does the costume support the audience's understanding of A Linha Curva? (6 marks)	
How does the aural setting support the audience's understanding of A Linha Curva? (6 marks)	
How does the physical setting support the audience's understanding of A Linha Curva? (6 marks)	
How does the movement content support the audience's understanding of A Linha Curva? (6 marks)	
How does the lighting support the audience's understanding of A Linha Curva? (6 marks)	
Discuss how the staging/set and accompaniment in the work contribute to the mood of the piece? (12 marks)	
Discuss how the costume and lighting in the work contribute to the mood of the piece? (12 marks)	
Discuss how the choreographic approach and movement content in the work contribute to the audience's understanding of the piece? (12 marks)	

## Media Year 10 Term 1 – Introduction to **Component 1A**

#### Term Focus -

#### **Prior Learning Links**

Theory lessons completed terms 1-6 in Year 9

**Future Learning Links** 



Red Amber Green

- Year 10 term 2+3

#### **KEY VOCABULARY**

#### **KEY WORDS/ SUBJECT TERMINOLOGY**

**Convention** – Something we would expect to see, for example a convention of an action film would be explosions. A product convention would be something we expect to see in a certain product, e.g. a film poster would usually have the title of the film

Publishing- Media products that are physical and can be printed, e.g. posters, magazines, leaflets etc

**Demographic**- A way to categorise audience based of factors like age, gender etc

Audience- The people who are the intended 'consumers' of media

Producer- The person/s responsible for creating and distributing media products

Purpose- The reason a media product has been created, usually to persuade, inform or entertain (PIE)

**Genre-** The category a media product belongs to, based on the conventions it has

**Reception Theory**- A media theory that seeks to understand how and why audiences react differently to media products (more info in qu 8)

Uses and Gratification Theory- A theory that tries to understand why audiences choose certain media products (more info in qu 9)

Contemporary or Historical- If a product is made pre 2000 it is historical if not, contemporary

**Primary Research**- Gathering your own information and statistics

Secondary Research- using the internet etc to find out information and facts

#### 1. What is the Media Coursework?

The Media coursework is split into two components (parts).

Component 1 is the theory component and Component 2 is the practical component. Each is worth 30% of your final grade:

Component 1-30% Component 2-30% Component 3 (Exam) – 40%

For each component you will get a 'Brief' provided by the exam board. This will contain a theme that you need to stick to when completing the tasks needed.

Component 1 is split into 2 sections Learning Aim A and Learning Aim B. We are going to start with Learning Aim A.

2. What is Learning Component 1 Learning Aim A?	Red	Amber	Green
In Learning Aim A you are expected to analyse three different Media products.			

You must select one media product from each media platform.

E.g. you must select one Publishing product, one interactive product and one broadcast product.

Once you have selected 3 products you need to analyse the following:

- Forms
- Purpose
- Audience
- PThe relationship between these three things.

3. How can I analyse the 'form' of a media product?	Red Amber Green
This bit is actually quite straight forward. You just need to describe the proc	duct and how it has been designed.
For example, you might have selected a film poster as your publishing produ	uct
You just need to state:	LEONARDO DICARETOT
what is on the poster	
<ul> <li>where it is on the poster + why</li> </ul>	
<ul> <li>how big it is +why</li> </ul>	
<ul> <li>colours used + why</li> </ul>	
fonts used +why	
anything else you see	
Clearly for interactive and broadcast products you would be talking about d	lifferent
elements but the process is the same	
	manual 1 Charles
	Statistics Proteins
	FIGH THE DESIGN OF THE DATE CHICKET
	EXPEDIENCE IT SUMHER 2010 IN MARK
4. How do I discuss purpose?	Red Amber Green
When we discuss purpose we are likely going to be talking about PIE.	
	REMEMBER WHO THE ENEMY IS
Dercuede	The second second
<u>P</u> ersuade	
Inform	
- Entertain	
You need to work out what the primary job (purpose) of your product is.	
Then you need to say how it goes about trying to meet this purpose.	And S Star
to the second of the second of the second	
In the case of a film poster, it has the purpose of persuading someone to go watch the film. You need to analyse how it does this.	and
watch the him. You need to analyse now it does this.	THE HUNGER GAMES
You can (and should) combine this part with the analysis of the form of the	product
otherwise you will repeat yourself!	NOVEMBER 21
	- 1
5. How can I discuss who the primary and secondary target audience are?	Red Amber Green
Before you analyse your products you need to also establish to yourself who	o the product is aimed at.
Firstly, establish the (miner of terrest cudience. This is the main success of the	
Firstly, establish the <u>'primary'</u> target audience. This is the main group of peo	opie who this product is almed at.
You need to break this down into a demographic profile. For this you are try	ving to establish the following things about the
target audience:	,
	Social Class in the United States
• Age	Upper Class 1% • Heirs, celebrities, top corporate executives • \$500,000+ income
• Gender	Elite education is common Upper Middle 15% Managers, professionals
Location	Class + \$100,000 income - Highly educated; college and graduate degrees likely. Lower Middle 32% + \$Killed contractors, craftspeople_artistans, semi-
Social class (ABC1/C2DE) →	Class professionals; autonomy in work environment common • \$35,000-\$75,000 income
Religion	Some college, training, secondary education likely Working Class 32% Clerical, blue- and pink-collar workers; job security is
Education	often a problem • \$16,000-\$30,000 income • High school education
Ethnicity	Lower Class 20% • Poorly-paid positions and/or reliance on government assistance
	<ul> <li>Some high school education</li> <li>Source: Thompson, W. &amp; Hickey, J. (2005). Society in Focus. Boston, MA: Pearson, Allyn &amp; Bacon</li> </ul>
If you are ever not sure then it is often best to look at the main character/s.	
audience.	
····	

these people might be interested in the product, even if it is not aimed at them. 6. What do I do once I know who my target audience is? Red Amber Green It is not just enough to know who the target audience is, you must make sure that you comment and analyse how the product appeals to the people within that demographic. You should look for things like: Themes that appeal to them Characters that are like them • Colours that appeal to them Fonts that are likely to appeal to them • Content that would appeal to them Anything else you can find that might appeal to that target audience ٠ 7. How do I know if my product is a contemporary or historical product? Amber Green Really easy one this... If it was made before 2000 then it is considered historical. If it was made in 2000 or after then it is contemporary. Once thing to bear in mind is that a website might have originally been created before 2000 but its content is continually updated so the content now would be contemporary. How might an audience respond to a media product? Red Amber Green 8.

Once you have worked out the primary audience you can think about the secondary audience. These are people who may well be interested in the product but who are not part of the primary audience. You would need to be able to justify why



Remember, just because the audience is from the same demographic, it does not mean all will love the media product and respond in the same way.

Stuart Hall's Reception Theory explains how audiences react to different media products.

There are three 'readings' we need to remember:

Firstly, the Dominant Reading. This is where the audience responds in the way that the media producer intended. For example, in the advert to the right the target audience would want to buy the aftershave.

The Negotiated Reading is second. This is where the audience understand the messaging and values of the product but might not agree with all of it but still may agree with some. In the advert for example they might not be persuaded with the muscular man as they might find this overly sexualising but they still might be tempted to buy the product for other reasons.

The Oppositional Reading is third. This is where the audience rejects the messaging of the product. For example they would definitely not buy the aftershave as they do not find the image or the lifestyle the poster is offering appealing.

For each of the three products you analyse you need to ensure that you have discussed how and why an audience might react in different ways to the product.

9. Why might an audience choose a media product?

When we are thinking about why an audience might choose a particular media product, we need to consider Uses and Gratification Theory.

In this theory an audience chooses a media product to fulfil one of four needs.



Red



Amber Green

- <u>Companionship</u> i.e the need for a connection. This could being interested in a character and wanting to find out what happens to them or talking about the latest TV series with your friends/family.
- <u>Surveillance/Information</u>- This is the need to want to know what is going on in the world. This could be the news or just what your friends are up to via social media
- <u>Personal Identity</u> This is the way we use the media to shape who we are. This could be watching politics to shape our views there, or watching music videos to shape our fashion choices. It could be playing brave heroic characters on the computer or looking up to a celebrity we are reading about in a magazine.

Red Amber

Green

• <u>Entertainment/Diversion</u>- We all need a distraction, life can be difficult and dull at times so watching a film, reading a magazine or scrolling through the internet can help us be entertained.

Why might an audience have chosen the product you have selected?

#### 10. What research would I need to do once I have got my brief?

You would need to find out (by doing secondary research) and make notes on the following things for each product you select:

- The name of the product
- When it was made
- Who made it
- What type/form of product it is
- What platform it is from
- How it links to the theme of the brief

Each time you use the internet you must keep a log of where you find information as you will add the website to the bibliography.

You will also need to complete some basic primary research that links to the brief. This will allow you to put in some facts<br/>and information that you have gathered yourself. For the practice brief you will be provided with this information.11. How can I analyse my primary research?RedAmberGreen

Once you have looked over the data gathered in a primary research questionnaire you need to be able to interpret that data in relation to the media brief.

#### Look at the example below:

5. Please indicate if you have consumed any media linked to the following franchises: (0 point)



From this we can tell that Marvel is the most popular film franchise. Therefore it would make sense to choose products related to Marvel as we know that it is a popular franchise linked to this theme (technology in this case). It would not make much sense to choose Star Trek as we can see it is less popular.

You only need to reference the primary research at the beginning of the analysis but if you have found out anything that backs up a point you are making then you should mention that!

Red	Amber	Green		
HOME LEARNING TASKS				
Task De	scription		Dor	ne?
Find The Media Insider on YouTube and watch his video on Reception Theory				
Find The Media Insider on YouTube and watch his video on Uses and Gratification Theory				

Research a media franchise and see how many different products you can find related to it	
Work out who you think the target audience is and create a demographic profile on a TV show you have watched	
Read the sample answers to Learning Aim A on OneNote	

## Business Year 10 Term 1

Term Focus – Market Research aims, Methods, Sampling Methods and Data Analysis

#### **Prior Learning Links**

• Year 9 Term 1 – 6 Topics

Future Learning Links



- RO68 Business Proposal
- RO69 Pitching your Business Proposal
- RO67 Exam

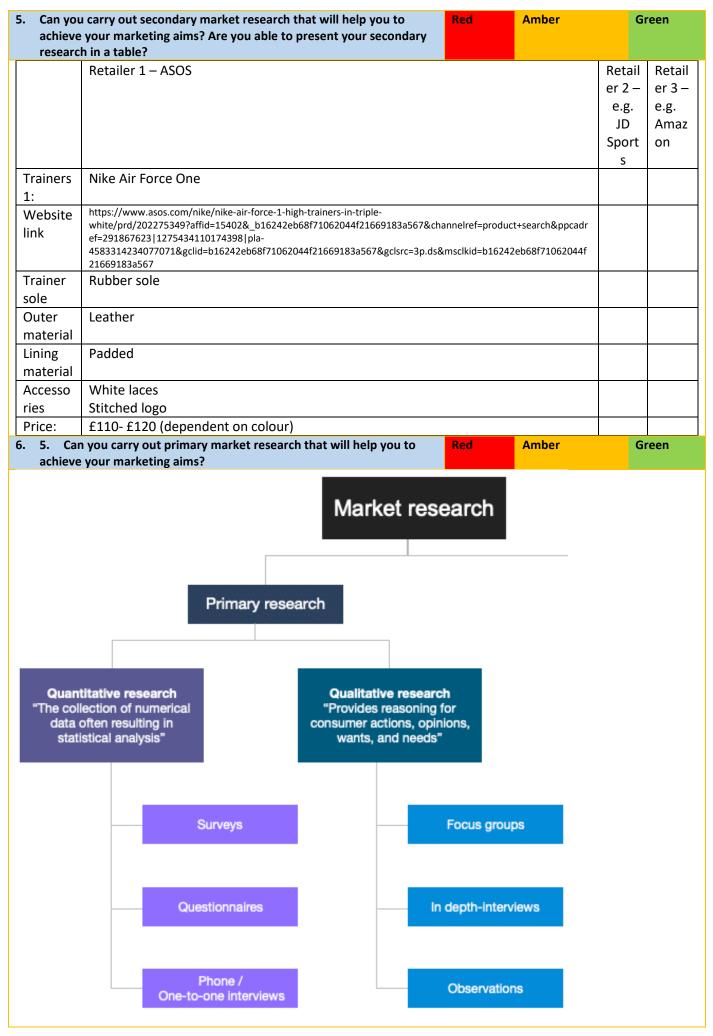
KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
Marketing aims	Marketing aims are SMART targets that help businesses achieve their broader goals.
SMART	SPECIFIC MEASURABLE ACHIEVABLE REALISTIC TIMELY
Market Research	Market research is the process of gathering data about people or companies and analysing it to figure out what they're looking for.
Qualitative	Gather and analyse non-numerical data in order to gain an understanding of individuals' social reality, including understanding their attitudes, beliefs, and motivation.
Quantitative	The process of collecting and analysing numerical data to describe, predict, or control variables of interest.
Primary Research	(Also known as field research) is new research that a business undertakes itself.
Secondary Research	Secondary market research (also known as desk research) involves gathering existing data that has already been produced. This can be collected from inside (internal) or outside (external) of a business.
Sampling Methods	Sampling methods refer to the techniques used to select a group of individuals from a larger population for the purpose of conducting market research. Examples of sampling methods include: cluster, convenience, random, quota.

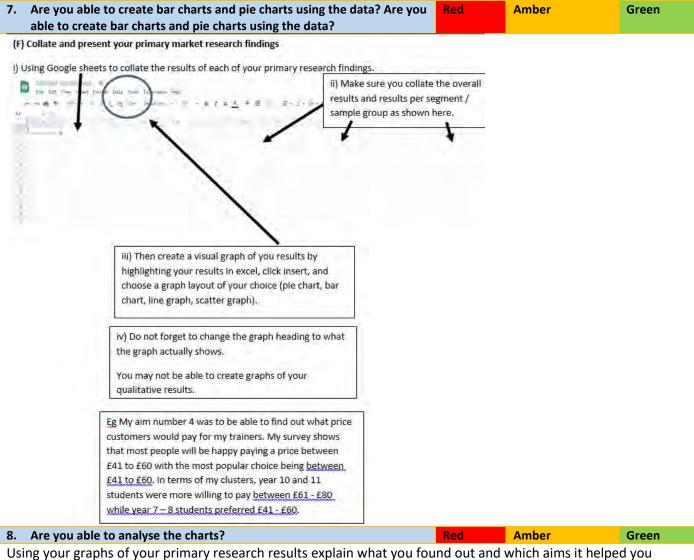
1. What are marketing aims? Can you give examples of marketing aims? Can you explain why marketing aims are so important?	Red	Amber	Green		
Think carefully about what you need to find out (read the brief and all tasks) and explain in det achieve (your aims) with your market research investigation. It is too simple to say "I want to fi trainers" – this is too generic and too brief.	,				
Your aims should be broken down into very specific and measurable targets for example:					
"My first aim is to find out who buys trainers the most" I have set this aim because it will hel biggest market for my trainer design. Whether its adults, children, a certain gender, a certain lifestyle.	•	d the			
"My second aim is to identify the most popular design elements that should be included in m this aim because it will help me design trainers that are more attractive to my target custom	•	e set			

Your aims should consider not just the design of your product, but also the most likely type of customer, the price they will be willing to pay, how often they may buy your product, and what similar products are already on sale that will compete with your design.

	nd describe primary market research me	thods? Can	Red	Amber	Green
	osen market research methods?				
Select two primary m Primary market rese					
-					
	naire on potential customers				
	ntial customers / competitors				
	ntial customers / competitors				
Interviews with pote	ential customers / competitors				
Reasons for choice, co	onsider:				
Cost – High or low					
Time – Fast or slow to	•				
Difficulty level to gath	ner information- Timeframe needed t	o do this			
	nd describe secondary market research r	methods?	Red	Amber	Green
	r chosen market research methods?				
	market research tool:	Т			
Secondary market re		_			
· · ·	collection from competitor websites	_			
•	collection from government				
publications / Minte		_			
•	collection from trade magazines /				
books / newspapers					
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Reasons for choice, co Cost – High or Iow Time – Fast or slow to Difficulty level to gath		o do this			
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Your choice of sampling method should consider which will give you the most accurate results rather than what is the easiest to collect. Your reasons should explain why it is the most appropriate method of sampling for each of your chosen research methods. Page 57 of 77





Using your graphs of your primary research results explain what you found out and which aims it helped you achieve. You also need to explain your results of your qualitative research and what aims from task A it helped you achieve.

HOME LEARNING TASKS	
Task Description	Done?
What is the purpose of market research?	
For each purpose of market research evaluate how market research will help to achieve these.	
Research the 7 primary market research methods and make notes on what it is. Highlight the	
benefits and constraints of each.	
Research the 5 secondary market research methods and make notes on what it is. Highlight the	
benefits and constraints of each.	
How do businesses select appropriate market research?	

### French Year 10 Term 1 – Future plans

# Term Focus – This term looks at talking about future plans and the importance of languages. You will be able to:

- Talk about what you will do this summer and your passions
- Describe what kind of person you are
- Talk about what jobs you would like in the future
- Talk about your future ambitions

#### **Prior Learning Links**

- Using time phrases
- Using the future tense
- Using opinion phrases
- Describing people

#### **Future Learning Links**

- Using the future tense
- Using the conditional tense
- Giving complex opinions
  - Using infinitive phrases

#### 1. What would you like to do this summer?

Qu'est-ce que tu aimerais faire cet été? (What would you like to do this summer?)							
				un restaurant	un café		
		travailler	dans	(a restaurant)	(a café)		
	j'aimerais	(to work ii	n)	un supermarché	une boulangerie		
Cet été	(i would like)			(a supermarket)	(a bakery)		
(this summer)	je voudrais	faire du ba	abysitting	aider dans un centre sportif			
	(i would like)	(to do babysitting)		(help i	n a sports centre)		
		être animateur de vacan		ces prome	ener les chiens		
		(to be a ho	oliday camp lea	der) (walk	dogs)		
Ce serait			dur	£	génial		
(It would be)			(hard)		great)		
Ce ne serait pas	5		ennuyeux	i	ntéressant		
(It wouldn't be)			(boring)	(	interesting)		

#### 2. What are your passions?

**Quelles sont tes passions?** (What are your passions?)

Ma passion, c'est	la mode	aider les autres
(My passion is)	(fashion)	(helping others)
Je suis passionné par	les sciences	voyager
(I am passionate about)	(science)	(travelling)
Ce qui m'intéresse le plus, c'est	le sport	les animaux
(What interests me the most is)	(sport)	(animals)



Red Amber

Red Amber Green

Green

3. What sort of person are	e you?			Red	Amber	Gree
Quelle sorte de personr	e es-tu? (What sort of per	son are you?	)			
Je dirais que						
(I think that)	créatif	respon	sable	indépenda	nt	
Je pense que	(creative)	(respon	sible)	(independe	ent)	
(I think that)	fidèle	travaille	eur	actif		
Mes amis disent que	(loyal)	(hardwo	orking)	(active)		
(My friends say that)	organisé	patient		intelligent		
Je peux être	(organised)	(patient	:)	(intelligent	)	
(I can be)						
	je sais bien me concent	ror	j'ai beauco	up de patience		
			(I have lots	of patience)		
En plus	(I know how to concent		je m'enteno	ds bien avec toute	s sortes d	е
(In addition)	j'ai une attitude positiv		personnes			
	(I have a positive attitud	de)	(I get on we	ell with all kinds of	people)	

#### 4. What do you find important in a job?

Red Amber Green

Qu'est-ce que tu trouves important dans un emploi? (What do you find important in a job?)						
			chanteur	joueur de foot		
Dans le futur,			(a singer)	(a football player)		
(In the future,)	je voudrais être	e	chef	médecin		
À l'avenir,	(I would like to	be)	(a chef)	(a waiter)		
(In the future,)			directeur / directrice	policier		
			(a boss)	(a police officer)		
Avoir des responsibi	lités,	Un bo	n salaire,	c'est important pour moi.		
(Having responsibilit	ies,)	(A goo	od salary,)	(is important for me)		
Faire quelque chose d'intéressant, Un		Un me	étier actif,	c'est l'essentiel.		
(Doing something interesting,)		(An ac	tive job,)	(is the essential.)		

#### 5. What do you want to do in the future?

Red Amber Green

Qu'est-ce que tu veux faire à l'avenir? (What do you want to do in the future?)							
	avoir des enfants,	j'aimerais	aller à l'unviersité	chercher un emploi			
	(having children,)	(I would like)	(go to university)	(to look for a job)			
Avant de	me marier,	j'epsère	suivre une formation	visiter d'autres pays			
(Before)	(getting married,)	(I hope)	professionnelle	(to visit other countries)			
	trouver un bon travail	j'ai envie de	(to do professional	gagner beauoup de			
Page 6	(Before)	(I want)	training)	l'argent			

	réussi mes examens,	j'ai l'intention de	trouver un emploi dans	(to earn lots of money)
Après	(passed my exams,)	(l intend)	le domaine de	avoir ma propre
avoir	fini mes études,	mon but est de	(to find a job in the field	entreprise
(After	(finished my studies,)	(my goal is)	of)	(to have my own
having)	voyagé à l'étranger,			business)
	(travelled abroad,)			

6. What are the advantages and disadvantages of this job?

Red Amber Green

Red Amber Green

# **Quels sont les avantages et les inconvénients de ce travail?** (What are the advantages and disadvantages of this job?)

Je dirais que (I think that) Je pense que	<b>un avantage, c'est que</b> (one advantage, is that)	<b>Le métier est bien payé</b> (the job is well paid) <b>Le travail est varié</b> (the job is varied)	on peut devenir riche (you can become rich) on peut prendre ses propres decisions (you can make your own decisions)
(I think that) À mon avis (In my opinion)	<b>Un inconvénient, c'est que</b> (a disadvantage, is that)	<ul> <li>ça peut être dangéreux</li> <li>(it can be dangerous)</li> <li>c'est fatigant</li> <li>(it's tiring)</li> <li>le travail est difficile</li> <li>(the job is difficult)</li> </ul>	les heures sont longues (the hours are long) on a besoin d'une longue formation (you need a long period of training) on risque le chômage (you risk unemployment)

#### 7. How do I form the simple future tense?

English	French	Ending	To form the simple future tense, you need to follow the
I	Je	ai	following steps:
You	Tu	as	1. Decide who is speaking
He / She / One	ll / Elle / On	а	2. Find your infinitive verb e.g. jouer
We	Nous	ons	3. Add the ending that matches
You (pl)	Vous	ez	E.g. I will play → Je + jouer + ai = Je jouerai
They	Ils / Elles	Ont	

8. What is a verb?	Red	Amber	Green
Definition: A word used to describe an action, state or occurrence. E.g. to play, to feel, to have	, to be.		
Key Verbs: travailler (to work), je suis (I am)			
9. What is a noun?	Red	Amber	Green
Definition: A person, place or thing.			
Remember – Every noun in French is either masculine or feminine.			

10. What is a conjunction?	Red	Amber	Green
Definition: A word used to link two clauses or sentences.			
Key Conjunctions: et (and), aussi (also), cependant (however)			
11. What is an adjective?	Red	Amber	Green
Definition: A word used to describe a noun.			
12. What is an intensifier?	Red	Amber	Green
Definition: An intensifier is used <u>before</u> an adjective to add detail.			
Key intensifiers: très (very), assez (quite), un peu (a little), trop (too)			
HOME LEARNING TASKS			
Task Description			Done?
Can you write a short paragraph talking about your passions and your summer plans?			
Can you write a short paragraph to talk about your future plans?			
Can you write a short paragraph talking about the jobs you would like to do?			
Can you use the sentence builders above to write sentences answering the questions? Can you	improve th	nese by	
adding conjunctions and intensifiers?			
Practise the vocabulary in your knowledge organiser by using the look, cover, write, check meth	od.		
Go to <u>www.sentencebuilders.com</u> and practise this terms vocabulary.			

### Spanish Year 10 Term 1 – Future plans

Term Focus – This term looks at talking about future plans and the importance of languages. You will be able to:

- Talk about what you do to earn money
- Give opinions about your job
- Describe what kind of person you are
- Talk about what jobs you would like in the future
- Say why learning languages are important

**Prior Learning Links** 

- Using time phrases
- Using the future tense
- Using opinion phrases

#### 1. What do you do to earn money?

¿Qué haces para ganar dinero? (What do you do to earn money?) una tienda un café trabajo en (a shop) (a café) (I work in) una fábrica un gimnasio Para ganar (a factory) dinero (a gym) (To earn Hago cosas y las vendo en línea money) (I make things and sell them online) cuido a los niños (I look after children) Los fines de semana (at the weekends) cinco euros por hora cuando necesito dinero (per hour) (5 euros) diez libras Lo hago (the headmaster) por día y gano (I do it) cuando me necesitan (and I earn) (10 pounds) (per day) (when they need me) quince pesos por semana (15 pesos) en las vacaciones (per week) (during the holidays)

**Future Learning Links** 

Using the future tense

Adjectival agreement

2. Do you like your job? Red Amber ¿Te gusta tu trabajo? (Do you like your job?) Me gusta mi jefe me llevo bien con (I like) (my boss) Me chifla (I get on well wtih) mis compañeros (I love) (my colleagues) mi trabajo porque No me gusta (my job) (because) (I don't like) mis compañeros son desagradables

(my colleagues are)

(unpleasant)



Red Amber

Green

Green

Odio

(I hate)

3. What type of person ar	e you?			Red Amb	oer Gree		
¿Qué tipo de persona eres? (What type of person are you?)							
Diría que		activa	responsable	lista			
(I think that)		(active)	(responsbile)	(clever)			
Pienso que	una persona	fuerte	trabajadora	independie	nte		
(I think that)	(a person)	(strong)	(hardworking)	(independe	nt)		
Mis amigos dicen que		organizada	organizada artistica práctica				
(my friends say that)		(organised)	(organised) (artistic) (practical)				
		buen sentido de	l humor				
		(a good sense of	humour)				
Además	tengo	buenos conocim	ientos de				
(In addition)	(I have)	(good knowledge	(good knowledge of)				
		buenas capacida	buenas capacidades de comunicación				
		(good communic	ation skills)				

Red Amber Green

4. What type of job do you want?
----------------------------------

¿Qué tipo de trabajo quieres? (What type of job do you want?)						
Cuando era más joven,	Cuando era más joven,Me gustaba la idea de seractorcamarero					
(When I was younger,)(I like the idea of being)De niño,quería ser		(an actor)	(a waiter)			
		actriz	camarera			
(As a child,)	(I wanted to be)	(an actress)	(a waitress)			
Antes,	era mi sueño ser	artista	enfermero			
(Before,)	(it was my dream to be)	(an artist)	(a nurse)			
		periodista	ingeniero			
		(a journalist)	(an engineer)			
	me apetece ser	policía	guía turístico			
	(l'm keen to be)	(a police officer)	(a tour guide)			
Ahora,	es mi sueño ser	científico	peluquero			
(Now,)	(It's my dream to be)	(a scientist)	(a hairdresser)			
	quiero ser,	director de cine	profesor			
	(I want to be)	(a film director)	(a teacher)			
		director de teatro	médico			
		(a theatre director)	(doctor)			

#### 5. What plans do you have for the future?

¿Qué planes tienes para el futuro? (What plans do you have for the future?)

En el futuro (In the future) El año próximo (Next year) Cuando sea mayor (When I am older) Cuando tenga bastante dinero (When I have enough money)	<pre>voy a (I'm going) me gustaría (I would like) espero (I hope) tengo ganas de (I am keen to) tengo la intención de (I intend to)</pre>	<pre>casarme (get married) tener hijos (to have children) ir a la universidad (go to university) hacer una carrera universitaria (to do a university degree)</pre>	<pre>conseguir un buen trabajo (to get a good job) buscar un trabajo (find a job) ser empresario (to be an entrepreneur) montar mi propio negocio (to set up my own business)</pre>
---	---	--	---

#### 6. Why are languages important?

Red Amber Green

Red Amber Green

¿Por qué los idiomas son importantes? (Why are languages important?)						
Hablo (I speak) Aprendo (I am learning)	español. (Spanish.) francés. (French.) inglés.	<b>castellano.</b> (castillian.) <b>catalán.</b> (catalan.)				
<b>Me gustaría aprender</b> (I would like to learn)	(English.) <b>gallego.</b> (gallician.)	<b>euskera.</b> (basque.)				
Si sabes halar otro idioma, (If you know how to speak another language,)	<b>puedes</b> (you can) <b>te permite</b> (it allows you to)	<b>estudiar o trabajar en el extranjero</b> (study or work abroad) <b>mejorar tus oportunidades laborales</b> (improve your job opportunities)	<b>descubrir otras culturas</b> (discover other cultures) <b>descubrir otros países</b> (discover other places)			

7. What are the rules for masculine and feminine agreement of jobs?	Red	Amber	Green	
In Spanish, the spelling of jobs will change depending whether someone is masculine or feminine.				
Most jobs ending in 'o' will change to an 'a'. E.g. enfermero $\rightarrow$ enfermera				
Jobs ending in an 'a' will not change. E.g. periodista				
Jobs ending in a consonant, will often add an 'a' e.g. professor $ ightarrow$ profesora				
8. What is a verb?	Red	Amber	Green	
Definition: A word used to describe an action, state or occurrence. E.g. to play, to feel, to have,	to be.			
Key Verbs: Trabajar (to work), Soy (I am)				
9. What is a noun?	Red	Amber	Green	
Definition: A person, place or thing.				
Page 66 of 77				

Remember – Every noun in Spanish is either masculine or feminine.			
10. What is a conjunction?	Red	Amber	Green
Definition: A word used to link two clauses or sentences.			
Key Conjunctions: y (and), también (also), sin embargo (however)			
11. What is an adjective?	Red	Amber	Green
Definition: A word used to describe a noun.			
12. What is an intensifier?	Red	Amber	Green
Definition: An intensifier is used before an adjective to add detail.			
<b>Definition: An intensifier is used <u>before</u> an adjective to add detail.</b> Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too)			
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too)			Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS			Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS Task Description			Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS Task Description Can you write a short paragraph talking about what you do to earn money?			Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS Task Description Can you write a short paragraph talking about what you do to earn money? Can you write a short paragraph to talk about your future plans?	improve th	nese by	Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS Task Description Can you write a short paragraph talking about what you do to earn money? Can you write a short paragraph to talk about your future plans? Can you write a short talking about the importance of languages?	improve th	nese by	Done?
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too) HOME LEARNING TASKS Task Description Can you write a short paragraph talking about what you do to earn money? Can you write a short paragraph to talk about your future plans? Can you write a short talking about the importance of languages? Can you use the sentence builders above to write sentences answering the questions? Can you	-	nese by	Done?

# Health and Social Care Year 10 Term 1

Term Focus – Re-cap -Factors that affect growth and development. Types of life events and coping with change. How people may react differently to the same life events and adapt to changes Sources and types of support

#### **Prior Learning Links**

Factors that affect growth and development from Yr 9 Term 4

Future Learning Links Plan tasks 1, 2 and 3 Controlled assessment IMAGE (please check copyright)

KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
Resilience- the capacity to withstand or to recover quickly	Genetic inheritance- are inherited conditions that
from difficulties	are a result of genes that are passes from a parent
<b>Rehabilitation-</b> the action of restoring someone to health or	or parents to their child
normal life through training and therapy after imprisonment,	Community involvement- being part of a
addiction, or illness.	community or group brings a sense of belonging
	essential for wellbeing
	Gender role- is the role and responsibilities
	determined by a person's gender
	Life event- is something that happens to people as
	they move through life that has a major impact on their health and wellbeing
	Life circumstances – refer to the way a person
	lives, their day-to-day life and the choices they
	make
	Formal support- is provided by trained, paid
	employees such as health and social care
	professionals
	Informal support- is provided by people who are
	not paid, such as family and friends
	Emotional support- essential to help individuals
	cope with life events. Having someone to talk to
	helps people feel secure and come to terms with
	and adapt to change.
	Economic factors – relate to a person's
	employment situation and their financial resources

1. How do factors affect our growth and development?	Red	Amber	Green
Factors include:			

- Physical factors inherited conditions, illness and disease, physical ill health, mental ill health, disability
  and sensory impairment
- Lifestyle factors nutrition, physical activity, smoking, alcohol and substance misuse
- Emotional factors fear, anxiety and worry, upset and sad, grief and bereavement, happiness and contentment and security
- Social factors relationships, social inclusion and exclusion, discrimination and bullying
- Cultural factors religion, community participation, gender roles, gender identity, sexual orientation and race
- Environmental factors housing, the home environment and pollution
- Economic factors employment situation and financial resources

Consider how these factors impact on all areas of development

2. What is a life event?	Red	Amber	Green
Life events include:			
<ul> <li>Health and wellbeing – accident and injury, physical illness, mental and emotion</li> <li>Relationship changes – new relationships, long-term relationships, divorce or se</li> </ul>			od and
bereavement			
Life circumstances – moving house, starting or moving school, exclusion from ec	lucation,	redundan	су,
imprisonment, changes to standard of living and retirement			
3. How do life events impact on an individual's development?	Red	Amber	Green
Consider how life events can have a positive or negative impact on development.			
Will this impact be short or long term?			
Some life circumstances can have a negative impact on development, but as people com	ne to terr	ns with th	e event,
they may also have some positive effects.			
4. How do individuals cope with change caused by life events?	Red	Amber	Green
Two people can face the same life event but deal with it in very different ways. Influence	es on hov	v individua	als cope
with change include:			
<ul> <li>Emotional intelligence (the ability to control and express emotions)</li> </ul>			
<ul> <li>Resilience (how quickly they recover)</li> </ul>			
<ul> <li>Self-esteem (how good they feel about themselves)</li> </ul>			
<ul> <li>Disposition (feeling positive or negative)</li> </ul>			
<ul> <li>The support they have from others</li> </ul>			
<ul> <li>Other life events happening at the same time</li> </ul>		_	
5. What have we learnt so far this term?	Red	Amber	Green
Assessment lesson			
6. How can I progress?	Red	Amber	Green
PIT lesson		_	
7. What can informal support provide?	Red	Amber	Green
Support given by partners, family and friends is often the first level of support a person	receives.	Informal s	support
can provide:			
Reassurance			
Encouragement			
Advice			
A sense of security			
<ul> <li>Someone to talk through options</li> </ul>			
Practical help			
Why is informal support important in helping people adapt to change?			
8. Who provides professional care and support?	Red	Amber	Green
Some individuals may need professional support. Support may be provided by statutory	care serv	vices (prov	vided
and paid for by the state) or private health and care services (paid for by the person rece	eiving car	e).	
Professional carers and services include:			
Counsellors			
Specialist nurses			
GP health centres			
Dieticians			
Health visitors			
Mental health teams			
Occupational therapists			
Social workers			
Home carers			
<b>9.</b> What is the difference between multi-agency and multidisciplinary working?	Red	Amber	Green
Multi-agency working – two or more different types of service work together in a planne	ed wav e.	g. social se	ervices
may work with a GP and an early years setting to help protect a child at risk.	1.2		-
Multidisciplinary working – professionals from the same service but with different specie	alisms wo	ork in coor	peration
e.g. a GP may work with the practice nurse to help a patient with asthma.		·	-
10. Why do some people find it difficult to adapt to change unless given support?	Red	Amber	Green
The support given needs to meet the needs of the individual and to be effective. Types of	of suppor		
raye 07 01 / / //			

•	Emotional support (having someone to talk to helps people feel secure and come to terms with and adapt
	to change).

- Information and advice (helps people understand where to go for support, how to make healthy choices and what the choices available to them are).
- Practical help (financial assistance, additional care support, transport and domestic chores).

	Red	Amber	Green
	Red	Amber	Green
HOME LEARNING TASKS			
Task Description			Done?
Begin making your own notes in preparation for controlled assessment on how life event	ts impac	t on the	
PIES			

# **Child Development Year 10 Term 1**

Term Focus – Recap Component 1- Children's growth and development and different areas of development. Plan task 1, Growth and Development and Task 2 Children's development and factors affecting development - 1

Prior Learning Links	Future
Growth and development from Yr 9 term 3.	Plan ta
Factors that impact growth and development	Contro
from Yr 9 Term 4 and 5	

**Future Learning Links** Plan task 3 Controlled assessment **IMAGE** 

(please check copyright)

#### KEY VOCABULARY

KEY VOCABULARY	
KEY WORDS	KEY SUBJECT TERMINOLOGY
Growth – an increase in size and mass Centile charts- This is a graph where health professionals can mark children's height and weight on a line that plots the growth pattern that is expected. Development – the gaining of skills and knowledge over time	<ul> <li>Physical Dev - is defined as the growth of the body and its parts, including muscle and motor development</li> <li>Cognitive Dev - means how children think, explore and figure things out. It is the development of knowledge, skills, problem solving and dispositions, which help children to think about and understand the world around them.</li> <li>Emotional Dev – involves a baby and their parent establishing an emotional link, based on feelings of love an affection. It involves a child's development of self-esteem and learning how to control or express their emotions.</li> <li>Social-involves the development of relationships with others, the acceptable ways of behaving and how to relate to others in everyday situations</li> <li>Holistic – made up of parts that are interconnected</li> <li>Milestones – a stage or event in a process</li> <li>Midwife - Midwives provide care and support to women and their families while pregnant, throughout labour and during the period after a baby's birth.</li> <li>Health visitor -specialise in working with families with a child aged 0 to five to identify health needs as early as possible and improve health and wellbeing by promoting health, preventing ill health and reducing inequalities.</li> </ul>

1. What is the meaning of growth and development?	Red	Amber	Green
<ul> <li>This includes:</li> <li>Bone changes</li> <li>Comparisons of growth between a newborn and a 5 year old</li> </ul>		_	
<ul> <li>How growth is measured and recorded</li> <li>2. What is the meaning of growth and development?</li> </ul>	Red	Amber	Green
<ul> <li>This includes:</li> <li>The 2 year old's check</li> <li>The National Child Measurement Programme</li> </ul>	_	_	
3. What are the different roles and responsibilities of individuals involved in measuring growth and development? Page 71 of 77	Red	Amber	Green

This includes: • Health professionals involved in measuring growth and development – midwife, social care workers, early years educators, health visitors Parents and carers • The importance of measuring growth Consider why each person might monitor children's growth 4. What are the principles of development? Red Amber Green This includes: **Developmental milestones** • Who uses developmental milestones Holistic development • Developmental milestones are tracked against Early Years Outcomes by early years educators. The key person for a child must keep organised records of that child's developmental progress. 5. How does development change throughout the different age ranges? Red Amber Green Areas of development include: Physical • • Communication and language Cognitive and intellectual • Social • • Emotional Age ranges include: 0-18 months • 18 months to three years • 3 to 5 years 6. Preparing for controlled assessment Red Amber Green You will be assessed via a Pearson set assignment. This will be completed under formal supervision and carried out independently with no access to the internet. The assignment will include three tasks. Task one relates to learning outcome A. You will demonstrate your knowledge and understanding of the principles of growth and development. You will be given approximately 1 hour to complete the task. Evidence includes: All expected milestones • A detailed and relevant account of how to measure a child's growth • A detailed account of the role and responsibilities of individuals involved in the care of the child • A well developed reasoning showing the importance of measuring and monitoring a child's growth. 7. How do I plan Task 1 to ensure a good grade for controlled assessment? Red Amber Green 1. Plan an introduction for part 1 – research definitions for development Research the milestones of development for the age and area of development given 3. Find any pictures you want to include 8. How do I plan Task 1 to ensure a good grade for controlled assessment? Red Amber Green 1. Plan an introduction for part 2 – research definitions for development How would the growth be measured and recorded for the given child? 3. What the role and responsibilities are of individuals involved in measuring and monitoring the child's growth 4. Why is it important to measure and monitor the child's growth? 9. How do I plan Task 2 to ensure a good grade for controlled assessment? Red Amber Green 1. Plan an introduction – who is the child and what is their age? 2. What are the current milestones for the age and area of development given? 3. What are the next milestones for the age and area of development given? 10. How do I plan Task 2 to ensure a good grade for controlled assessment? Red Amber Green 1. Plan an introduction – what are the factors that may affect the child's development? 2. Identify four factors that will affect the given child's development Which of the factors may have the most influence on the child's development and why? 3. Which of the factors may have the least influence on the child's development and why? 4. 11. Red Amber Green 12. Amber Red Green

HOME LEARNING TASKS	
Task Description	Done?
Prepare notes for controlled assessment task 1	
Prepare notes for controlled assessment task 2	

### Subject Year 10 Term 1 – Hospitality and Catering

Term Focus – Hospitality and catering providers. Food safety. Nutrition of life stages.

Prior Learning LinksFuture Learning LinksKS3 Basic food and nutritionWJEC Hospitality and CateringKS4 Hospitality and Catering. WJECLevel 1 / 2 Vocational Award



#### **KEY VOCABULARY**

	KET VOCADOLANT		
KEY WORDS		KEY WORDS	KEY SUBJECT TERMINOLOGY
	Provision/providers	Symptoms	Commercial (residential)
	Hospitality	Prevention	Commercial (non-residential)
	Catering		Non-commercial (residential)
	Pathogens		Non-commercial (non-residential)
	Accommodation		Environmental Health Officer





How does a Commercial Non-residential provider operate?

Accommodation providers that DO make a profit.

Red

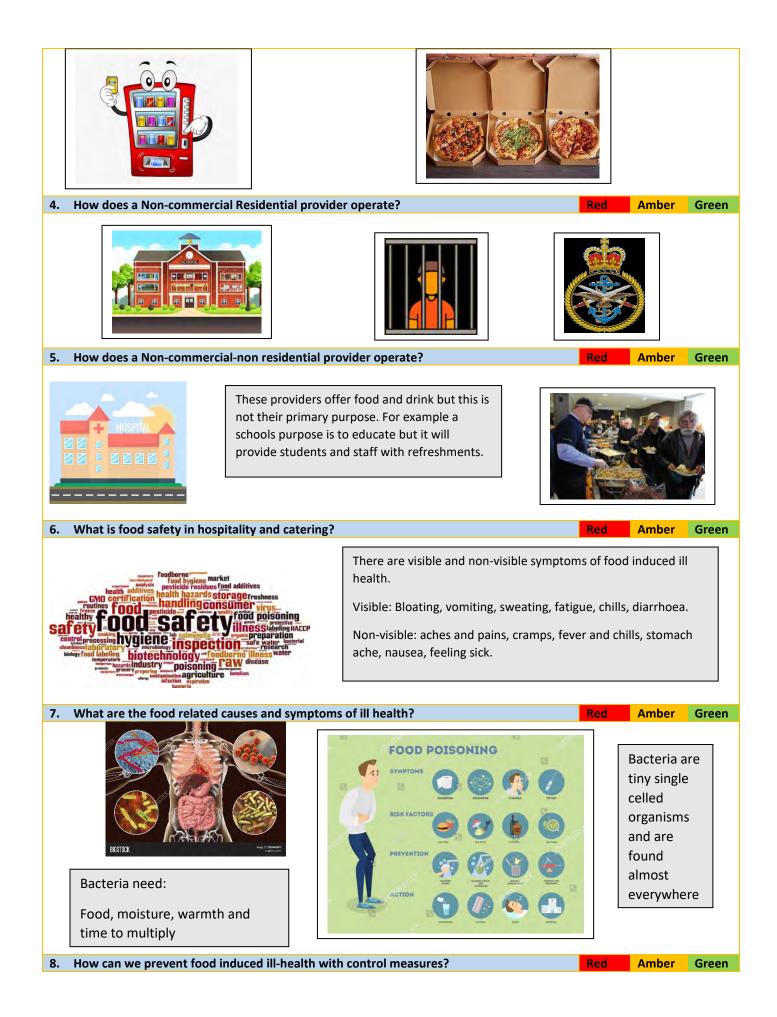
Amber

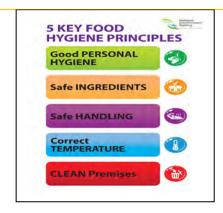
Green

B&B, Guesthouses, Airbnb, campsites and caravan parks, hotels, motels and hostels ...

Commercial non-residential provisions (food and drink only that DO make a profit) Cafes, tea rooms and coffee shops, vending machines, restaurants, pubs and bars, takeaways etc.....

3.





There are many recognised ways to prevent food induced ill health (P.97).

Including: staff training, maintaining all equipment, correct storage of chemicals



#### 9. What is the role of the Environmental Health Officer?



An environmental health officer is responsible for checking and implementing food safety, health and hygiene legislation. They have the power to immediately close down an unsatisfactory provider.



Red

Red

Red

#### 10. What is the importance of nutrition?

Amber Green

Amber

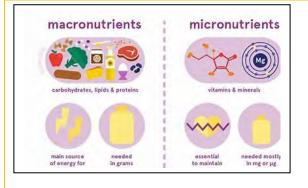
Green

We need nutrients for:

Growth, repair, energy, help digesting food, body structure (tissue, teeth, bones and organs) keeping the immune system healthy



#### 11. What are the Macronutrients / micronutrients / dietary fibre / water



Nutrients are divided into two main groups. Macronutrients and micronutrients.

Macro means large, we need a lot of these.

Micro means small, we need these in small amounts

12. How does nutritional need differ at various life stages?

Red Amber Green

Amber

Green

Nutritional Requirements for Different Age Groups							
Category	Age (years)	Protein (g)	Fat (q)	Calories (kcal)	Calcium (mg)	Iron (mg)	
Children	2-3	16.7	27	1060	600	9	
Children	4-6	20.1	25	1350	600	13	
Children	7-9	29.5	30	1690	600	16	
Boys	10-12	39,9	35	2190	800	21	
Boys	13-15	54.3	45	2750	800	32	
Boys	16-17	61.5	50	3020	800	28	
Adult (males)	Above 18	25	60	2320	600	17	

We will look at how each life stage will need different amounts of nutrients to ensure a healthy lifestyle. We will also investigate the effects of cooking methods on these nutrients. This is to give us some of the knowledge needed for the NEA Unit 2

#### HOME LEARNING TASKS

List the different types of providers and give 3 examples of their offerings	Done?
Consider 1 dish that you made this term, consider how you could modify it for a different customer (state the	
customer you are providing for)	
Write a paragraph on the role of the EHO, list at least four jobs within their role	
Plan a lunch time meal for a child and their parent (2 separate dishes). Give the reasons for your choice of dishes	
How can food related ill health be prevented? List at least 6 ways	

# Subject Photography Year 10 Term 1 – 'Introduction to Photography'

Term Focus – To enable students to work from a set of objectives relating to a theme. To develop students' knowledge of the formal elements and principles of visual language in photography including;

Line, shape, form, tone, colour, texture, pattern and composition.

To develop students' knowledge and understanding of photographic techniques including lighting, viewpoints, aperture, depth of field, shutter speed and movement.

To develop students' knowledge of genres of photography. This might lead to consideration of career paths e.g. sports or fashion photography.

These basic camera skills, the elements and principles of visual language will proceed to be built upon and interleaved through a series of projects. Scaffolding the design process for proceeding coursework projects.

In Year 9 students studied 3D Art and Design and due to a course change transitioned over to Photography during Terms 5 and 6.

In Year 9 students studied 3D Art and Design and due to a course change transitioned over to Photography during Terms 5 and 6. They explored cyanotypes and how they work creating examples of work in different light settings, taking pictures on their phones and editing them in class using photopea, not only adjusting the settings such a a focus on contrast, lightness and hues but also on layering different colours and themes over the top and understand the different layers and what they do to create contrasting images. They also looked into creating vector illustrations and how they would look with their ideas they had created this year, with the 3D Art and Design course, the clay bowls and balancing tools mainly. They also used Bezier as a tool to develop their pen tool techniques for photoshop, analysing their ideas using ACCESS FM. Reinforcing and embedding basic IT skills such as how to copy & paste, send an email and general computer usage.

#### Future Learning Links

#### Begin Sustained project 'Conceal and Reveal'

Bill Mangold and Aaron Siskind

Understanding the design process, develop awareness of Abstract/Maco Photography, more advanced Photo Shop skills- layers, line, shape, bending modes.

Marc Anderson and Kaleidoscope

Developing knowledge of Macro Photography and broadening awareness of distortion through Kaleidoscope photography, More advanced Photoshop skills- layers, quick selection tool, transform, line, shape, bending modes etc.

Scaffolding the design process for proceeding coursework projects.



#### **KEY VOCABULARY**

**Genres-** Portrait, Still Life, Abstract, Conceptual, Commercial, Documentary, Fashion, Fine Art, Wedding Photography.

**DSLR-** DSLR, Lens, Battery, Aperture, Electronic Sensor Shutter Release, Data Display, Camera Dial, Viewfinder, Shutter release, Modes- P, Tv, Av and M

**Vocabulary-** *Digital SLR, Card Reader, Contact sheet, JPEG, PSD/B files, Genre, Focal lengths, Exposure, Depth of field, Underexposed, Overexposed, Shooting Modes-* **auto,** *scene, and P, Tv, A and M Modes, Shutter speed, Aperture.* 

**Composition-** *Rule of thirds, Filling the frame, Symmetry, Repetition, Balance, Import, Edit* 

#### Genres

Visual Language- *Line*, shape, form, tone, colour, texture, pattern and composition.



1	1. What are the different Photography genres and how can we	Red	Amber	Green
	learn from the photographers who are successful with them?			

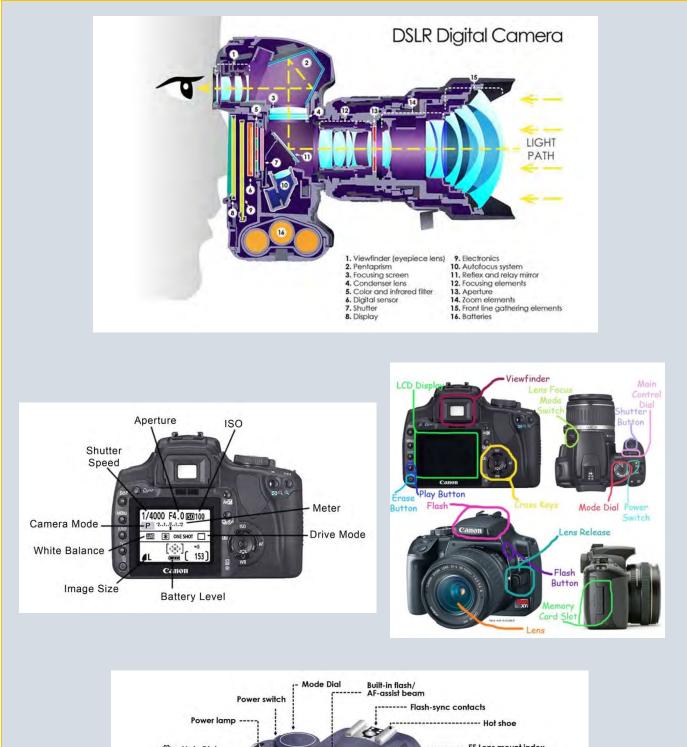
I will discover and be able to recognise different photography genres

Portrait, Still Life, Abstract, Conceptual, Commercial, Documentary, Fashion, Fine Art and Wedding.



2. Can you identify the different parts and functions of the DSLR?

I will learn how to identify the different parts and functions of the DSLR

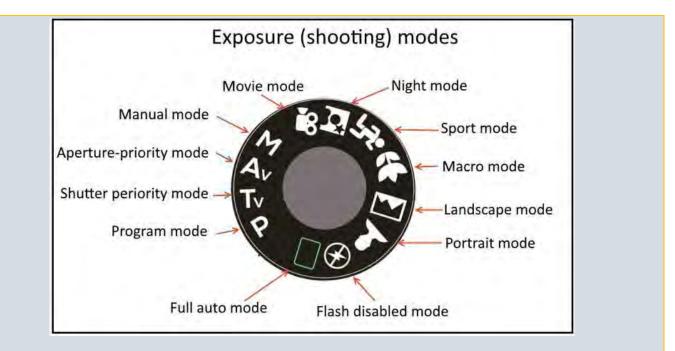




#### I will learn how to handle and hold thee camera properly

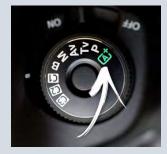


3. What are shooting modes and how can we use them? I will learn how to recognise the different modes on the camera mode dial and understand their functions.



#### Auto mode

**In auto mode the camera will do all the work**. It will choose the settings it thinks is right for that scene that is currently in the frame of the camera. If that scene gets darker, it will brighten up the frame by automatically changing any one, or all of your three principle settings, aperture, shutter speed and ISO. You only have to point the camera in the right direction and work on what is going to be in your photograph.



#### Shutter Priority (S or Tv)

Shutter priority is where you have control over shutter speed with the main dial on your camera and then the camera chooses the appropriate aperture for the given scene your camera is pointing at.

Shutter speed is the time that the shutter is open for. The longer the shutter speed, the more light will get into your camera.

Shutter speed also controls how much **motion blur** you have in your photographs. If you are shooting a moving object like a sports person, a bird or moving water, a longer shutter speed will blur this movement.

Shutter priority is great for sports and wildlife photography, where having the right shutter speed is imperative.





Big Aperture (small Hole) more depth of field and slow shutter speed for motion bur of the moving water.



Fast shutter speed

### Aperture Priority (A, Av)

Aperture priority is where you have control over the aperture with the main dial on your camera. The camera then chooses the appropriate shutter speed for that scene you are pointing the camera at. If the brightness in your frame changes, the shutter speed will change to suit. The aperture will only ever change when you turn that dial. The aperture refers to the size of the (iris) hole within the lens. Aperture is measured in **F-stops.** A low number like F1.8 or F2.1 means a wider aperture. F16 would be a smaller aperture. A wider aperture (a low F-stop) means less of the image is in focus. It also means a faster shutter speed can be used.

Red

#### <u>ISO</u>

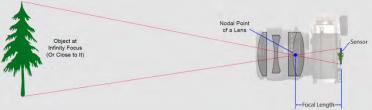
Is the light sensitivity of the digital chip or film. The higher the ISO the more sensitive the chip becomes, meaning that you can take a photograph when there is less light. An ISO of 200 is the average daylight setting.

#### 4. What is focal length and why is it important?

Amber Green

#### I will learn how different lenses can be used to adjust focal length.

Focal length measures the distance, in millimeters, between the "nodal point" of the lens and the camera's sensor. "Nodal point" may sound complicated, but it is simply the point where light converges in a lens. Here's a simple diagram showing the focal length of a lens, based upon this definition:



As you can see from the diagram above, focal length is determined when the lens is focused on something very far away – in other words, focused to infinity. Lenses are named by their focal length. You can find this information on the barrel of the lens, and almost every camera lens ever made will prominently display the focal length. For example, a 50mm lens has a focal length of 50 millimeters.



Focal length is a property of the lens itself, not the camera

Focal length is important because it relates to the field of view of a lens – that is, how much of the scene you'll capture. It also explains how large or small a subject in your photo will appear.

If you're trying to understand different focal lengths, you can think of higher values (like 500mm) as more "zoomed in," whereas lower values (like 20mm) are more zoomed out."

While the technical definition of focal length may be relevant to some people, as photographers, it is more important to understand is what focal length looks like!

Take a look at the following demonstration. The four photos shown below were taken at increasing focal lengths. The photos start at 25mm and end at 140mm:



Focal length: 25mm. Can you spot the climbers yet?



Focal length: 50mm. Now the climbers are



Focal length: 140mm. Now you can even see the expression on the climber's face!

Amber

Green

Red

If you want to know more about lenses go to this website-6 Different Types of Camera Lenses (and when to use each one) (livesnaplove.com)

#### 5. How are aperture and depth of field connected? I will learn how to adjust aperture and depth of field

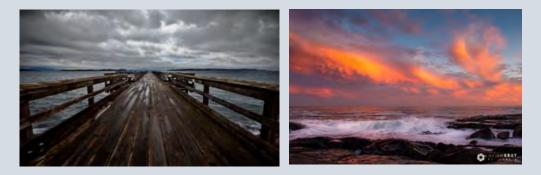
Depth of field is one of the bet-known photography techniques. It relates to which elements in the image are in or out of focus. It is set by tweaking your camera's aperture settings. Shallow depth of filed puts your subject in sharp focus and blurs the background or foreground. While large depth of field puts all of your subject in sharp focus.



Shallow Depth of Field larger F-Stop foreground / background in focus



Large Depth of Field Small F-Stop everything in focus



<u>3 Steps for Adjusting the Depth of Field on Your Camera - Photonify Photographers Marketplace</u>

6. How can shutter speed be used creativley? Red Amber Green I will learn how to select the appropriate shutter speed to capture movement and experiment with motion blur.

Motion blur is a long exposure photography that lets you convey the feeling of movement or action in a still image. "It gives use the ability to see things in a way that we can't on our own," says photogpher Chris Sidla.

#### Camera settings to capture motion blur.

Motion blur is all about shutter speed and how it interacts with light. You create the blur with a slow shutter speed. The slower your shutter speed (sometimes called a long shutter speed), the more light gets to your camera sensor. Because your shutter is open longer, more visual information is captured, which can include the blur of motion. This can also be helpful in low-light scenarios, but most of the time you'll need to adjust your other settings to limit the amount of light in your frame to compensate for the potential of overexposing a long exposure image. For the most control, shoot in manual mode. You can work with almost any DSLR or filmcamera, as long as you can adjust your exposure triangle of shutter speed, aperture, and ISO. If you don't want to go full manual, shutter priority mode lets you choose your shutter speed, and the camera will balance the other settings around your choice.



How to make motion blur photography | Adobe

Green

#### I will learn the importance of the Formal Elements.

There are several design elements, known as formal elements, that all photographers should be aware of when thinking about their image compositions.

Formal elements are visual feature that, when applied, have the potential to transform simple subjects into great shots.

The seven formal elements are commonly known as: LINE, SHAPE AND FORM, PATTERN, TONE, COLOUR, TEXTURE AND SPACE

Paying attention to the formal elements will bring order to your compositions and help you emphasise the most critical aspects of the shot.

Many of the world's most successful photographers base their images around formal elements, and understanding tem is essential to developing your photography skills.





#### Focus: Understanding the 7 formal elements of photography (picfair.com)

# 8. What is the Rule of Thirds and how can we apply it in Photography?

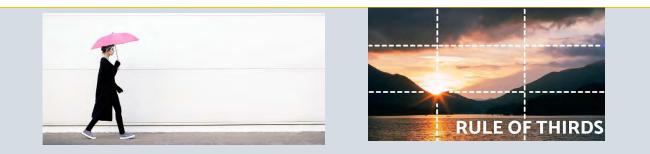
Amber Green

Red

I will learn how to apply the Rule of thirds and about the Rule of Odds.

The rule of thirds in photography is a guideline that places the subject in the left or right third of an image, leaving the other two thirds more open. It divides a photo into nine equal parts, split by two equally spaced horizontal and vertical lines. Generally, the rule of thirds leads to compelling and well-composed shots.

Imagine dividing a photo, or even your camera's viewfinder, into nine equal zones using these horizontal and vertical lines. That forms your rule of thirds grid – a setting you can select on most cameras, and even your phone.



#### Guide to the Rule of Thirds in Photography | Adobe

#### What is the rule of odds in photography?

The rule of odds states that, whenever possible, a composition should have an *odd* number of objects, *not* an even number of objects. So an image should have three flowers rather than two, and five people rather than four.

Why? The rule of odds taps into the brain's propensity to create order. You see, when viewing a group of objects, we unconsciously want to group them in pairs

But when we're faced with three, five, or seven objects in a photograph, we have a group that can't be easily organized. With an odd number of objects, one may become dominant. At the very least, the viewer will look longer at the image, moving between the individual elements. That is the power of the rule of odds in photography: It creates a composition that makes the viewer's brain work a little harder and look a little longer.



The Rule of Odds in Photography (An Easy Trick for Better Compositions) (digital-photography-school.com)

#### 9. What is fill the frame photography?

Red Amber Green

#### I will learn what it means to fill the frame

#### What is fill the frame photography?

In photographic composition, the "frame" refers to the rectangular scene you see through your camera. When you use this technique, you simply fill your photo's frame with more of your subject, reducing the amount of background or negative space shown.

You can achieve this by getting closer to the subject to bring forward the details. A zoom lens is another option if you can't get as close as you'd like.

#### Why use this technique?

When you fill the frame, you remove distractions and put more emphasis on your subject. This creates a stronger overall image and keeps viewers from having to guess what your subject is or what you hope to convey.

The fill the frame technique is especially useful in street photography. Too much background action can create confusion in a photo on busy streets, but using this technique will make your subject matter clear amidst the hustle and bustle.

#### When should you use it?

As with all photographic techniques, deciding whether to use it or not is simply a matter of creative choice.

When composing your shot, stop for a minute and consider the background. If the background helps to tell a story, consider leaving at least a portion of it within the frame. If the background doesn't add anything to the photo, consider a tighter crop to showcase more of your subject.

#### What is fill the frame photography? - Adobe

Fill the Frame Photography & Composition Techniques (studiobinder.com)





#### 10. How can we consider balance and symmetry in Photography? Red Amber Green

#### I will learn about symmetry in photography.

In photography symmetry appears when parts of your composition mirror other parts. It is created when two halves of your scene look the same and balance each other out. Symmetry defines something being clean, proportional and balanced and will make pictures appear neat, tidy and clinical.



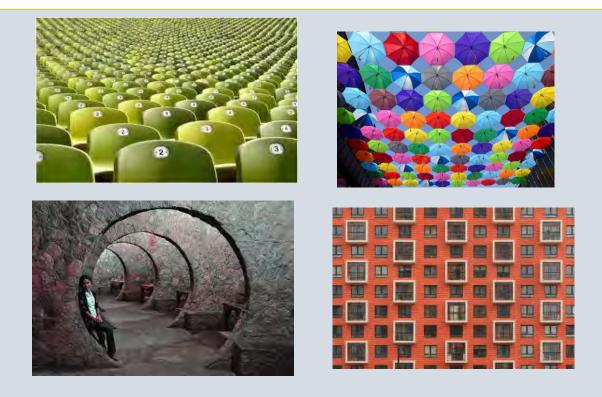
<u>Symmetry in Photography – Killer Tips to Improve Composition — The School of Photography - Courses, Tutorials</u> <u>& Books</u>

# 11. What is repetition and how can it be explored through Provide Amber Green photography?

#### I will learn how to recognise repetition in photographs

Repetition in photography refers to the technique of integrating recurring elements, patterns, or themes in a compositions to produce a sense of rhythm and balance in an image. This can involve the repeated use of lines, shapes, colours, textures, or other visual elements that can create a sense of consistency and uniformity.

E.g. A row of trees, a series of arches, a field of sunflowers, or even a group of people dressed similarly. By echoing these elements throughout the image, the photographer guides the viewer's eye across the photograph, establishing a visual rhythm.



#### **Writing Help**

#### **ANALYSING OTHERS' WORK**

#### Structure your response using the following headings:

#### FORM

What is going on in the art work/photography? Explain objectively and honestly (this is what vou see)

Imagine you are trying to explain the art work to someone over the telephone and transcribe that message (write it down)

#### **PROCESS**

What has the artist used to make the art work? Consider materials and media. If a photograph, what are the lighting considerations? Has it been presented in a special way i.e. as an installation?

What formal elements appear?

Are there any recognisable types of composition e.g. Rule of Thirds, Rule of Odds, Symmetry, Repetition?

#### CONTENT

Having researched further and understood the wider context, discuss the ideas behind the art work and the intentions of the photographer to the best of your ability. Consider the mood of the work and how it has been achieved.

Do you recognise the associated genres?

#### CONTEXT- Understanding the wider context and underlying themes gleaned from research and used to inform your opinion

**This could include-** *Biographical information about the artist, Political events of the time e.g. Wars, Suffragettes* 

Social & Cultural Norms e.g. fashion movements

*Ideologies, Technology, comparing other artists from the time* 

Consider past work and common trends in career

Art movements such as Bauhaus or Futurism

How does the work fir in to the history of *Art* and Photography?

Quotes and key points by specialists and academics

RESEARCH- Research using a variety of secondary sources and collecting comments, quotes and discussion points

Books, Magazines, Periodicals, Newspapers, Galleries, Museums, Internet, Radio, TV/DVD

QUESTIONING- Start with writing down key words and simple questions to get initial primary response and raise further areas for research

What? The Artwork

Who? Subject Matter

Where? Location

When? Process

Why? Meaning

#### **ANNOTATING YOUR OWN WORK**

**Think?** 

#### What is it that you have done?

e.g. **This is a photograph of**......(subject/object) **considering**......(techniques such as frame, viewpoint, direct light, natural light, diffused, composition, cropping, macro, movement).

#### Was there anything you felt that didn't work well?

Write a sentence describing what didn't work well and why.

Evaluate what was successful? What is it that you liked about it and why?

Use of colour-complementary, texture, line, detail, viewpoint lighting etc. I felt that worked because I used......

When annotating your work make sure you used photography keywords

# **CONNECTIVES-** Connective help our writing to flow- Try using these connectives to improve your written work.

	ADDITION And Also In addition Further Furthermore As well as And then		COMPARISON Similarly In comparison Otherwise In contrast Alternatively Despite this		ILLUSTRATION For example For instance In other words To show that Such as As revealed by Analysis shows		
	SUMMARY In brief On the whole Summarising Overall To sum up Evidently In conclusion		<b>OPINION</b> It would seem It appears Obviously Possibly It seems likely Presumably In conclusion		BALANCE & CONTRAST However Nevertheless Alternatively Yet whereas		
Task Description						Done?	
Homework will be set every two weeks linking to the project theme							

Below are some additional tasks you can complete with or without a camera:

**Without a camera task-** Look at the different genres for Big Question no 1 choose your favourite and describe it using the analysing others work in the writing help section.

With a camera task- take some photographs of your own inspired by one or more genres

Without a camera task- Study the pictures in Big Q no 2 and then label the different parts of the DSLR pictures below:



#### READ ME

#### <u>Shutter Priority (S or Tv)</u>

Shutter priority is where you have control over shutter speed with the main dial on your camera and then the camera chooses the appropriate aperture for the given scene your camera is pointing at.

Shutter speed is the time that the shutter is open for. The longer the shutter speed, the more light will get into your camera.

Shutter speed also controls how much **motion blur** you have in your photographs. If you are shooting a moving object like a sports person, a bird or moving water, a longer shutter speed will blur this movement.

Shutter priority is great for sports and wildlife photography, where having the right shutter speed is imperative.



#### COMPLETE ME

#### Shutter Priority (S or Tv)

Shutter priority is where you have control over ...... with the main dial on your camera and then the camera chooses the appropriate ...... for the

given scene your camera is pointing at. Shutter ..... is the time that the shutter is open for. The longer the shutter speed, the more ..... will get into your camera.

Shutter speed also controls how much **motion** ......... you have in your photographs. If you are shooting a moving object like a sports person, a bird or moving water, a ...... shutter speed will blur this movement.

Shutter priority is great for sports and wildlife photography, where having the right shutter ..... is imperative.



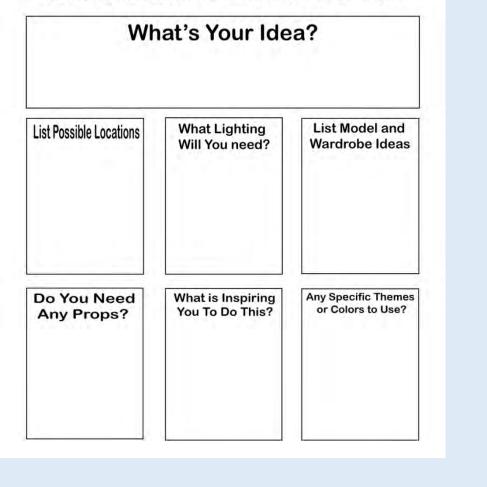
Without a camera task- Which of the formal elements is being shown in the pictures below? Go on the internet and find 10 pictures linked to the formal elements and make a collage like the one below using copy and paste. With a camera task- take pictures looking for examples of the formal elements make a collage if you can



Without a camera task- Use the worksheet below to help you plan a photo shoot linked to one of the genres...



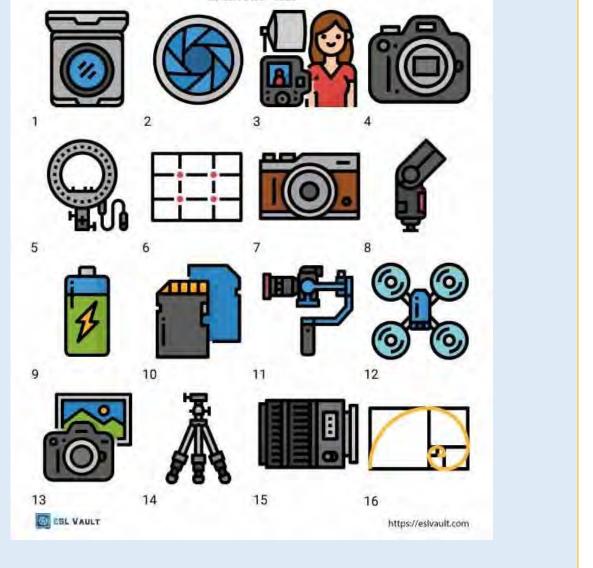
Pick your favorite idea from the ideation sheet and start to it out



### PHOTOGRAPHY VOCABULARY

MATCH THE WORDS WITH THE PICTURES -

LIGHTING RING - DRONE - FLASH - LANDSCAPE - PORTRAIT RULE OF THIRDS - GOLDEN RATIO - DSLR CAMERA - MIRRORLESS CAMERA BATTERY - MEMORY CARDS - CAMERA STABILIZER - TRIPOD - LENS FILTER APERTURE - LENS



#### photography Е Ρ н L Ι Μ 0 0 R Κ R Α D Ρ DIGITAL HIGHKEY Т Ε Т Ι F Μ 0 L Μ L W Μ L 0 LENS STUDIO Ε Ι Т Т н L 0 0 Ι Н Ι Н G L IS0 S Ν Ε L Ε G L G Ε Α S MODEL Μ S Α CAMERA Ι Μ Т Α 0 0 G Ρ Ε Κ Ρ R Α Ι HARDLIGHT LOWKEY Ι Α Т 0 Μ 0 D Ε L G D 0 Т Μ SOFTLIGHT PHOTOSHOP Т т С Ρ R Ι S L L G Н 0 Α L APERTURE U S F Ι Н Κ Κ Ε Α Ι 0 Ι TRIPOD Ε 0 MANUAL Μ Ι Ρ R G Т G G R Ν R 0 W D FILM DARKROOM F Μ Т R Н 0 R S Ε Н Κ D 0 Н LIGHTING U L Α U Ν Α Μ Ι R Т Ε U Ε Κ R 0 D Т Ε н Н Н Α Ι Υ Т 0 Ε L Ι Т S Υ Ε S 0 Α Т Κ D Ν Н Т R Ι D Α Α S D Ι Ρ Ρ 0 D G Play this puzzle online at : https://thewordsearch.com/puzzle/232185/ Without a camera task- complete the worksheet below ...

