

# **Knowledge Organiser** Year 10 Term 2

# CONTENTS

- Maths
- Biology
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2

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- Spanish
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- Sport Science







For the graph x=a, all points on the graph have the x coordinate = a ( in this case a=2)

For the graph y=a, all points on the graph have the y coordinate =b (in this case a=3)

If y=x, when y=1, x=2 y=2, x=2, etc.

Green

Here is an equation: y = -xHow can we plot this on a graph?







How do I draw and read conversion graphs?	Red	Amper	Gree
<section-header><section-header>What you need to know: Struct che two your The pines on the graph of the lines on the graph of the line. Struct de two your working of the line of the domain of the line. Struct de two your working of the line of the line. Struct de two your working of the line. Struct de two y value. Struct d</section-header></section-header>	Notes: When drawing conversion They will always be STRAM	graphs, GHT lines.	



9. How do I 'complete the square'?

Amber Green

Red

How to Complete the square  
If 
$$y = x^2 + bx + c$$
  
Substitute b and c below to complete the square  
 $y = (x + \frac{b}{2})^2 + c - (\frac{b}{2})^2$   
we read where the square the squar

12 + 2y = 182y = 6y = 3



Home	Learning Tasks	Date Completed
U960	Factorising to solve quadratic equations of the form ax^2+bx+c=0	
U601	Solving quadratic equations graphically	
U665	Solving quadratic equations using the quadratic formula	
U397	Completing the square	
U589	Solving quadratic equations by completing the square	
U509	Reading and drawing inequalities on number lines	
U337	Constructing and solving inequalities	
U789	Reading and plotting coordinates	
U933	Calculating midpoints	
U848	Finding the equation of a straight line from two points on the line	
U403	Plotting distance-time graphs	
U462	Calculating speed from distance-time graphs	
U638	Using and interpreting linear real-life graphs	

# 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



1. Communicable Diseases		Red Amber Green
- Miles		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
<ul> <li>Pathogens spread through:</li> <li>Drinking contaminated water</li> <li>Inhaling pathogens carried in the air</li> </ul>		membrane. <b>Prokaryotic cells:</b> 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	Main symptoms	Treatment
Measles	Airborne	Red skin rash	No treatment
IVICUSICS	dronlets from		however can be
	an infected	High fever	vaccinated as a
	nerson through		child
	coughing or		
	sneezing		
	Sheezing.		
	Prevent		
	through self-		
	isolation.		
ніх	Exchanging	Flu-like symptoms.	Controlled with
	bodily fluids.		antiretroviral drugs
	E.g.		which stops the
	unprotected		virus replicating in
	sex, sharing		the body.
	needles.		
Tomato mosaic virus	Direct contact	Mosaic patterns on leaves.	No treatment.
	(touch). Leaf to		
	leaf or a	Stunted plant growth.	Remove infected
	farmers hand		plant.
	to a new 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 Green
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.	Affected leaves to be stripped off the plant and destroyed	<b>Protist Disease:</b> Eukaryotic microorganisms that spread disease through vectors.
Athlete's foot	Fungal	Direct contact Indirect contact (shower floors)	Itchy skin. Skin to flake off.	Antifungal creams.	Rose Black Spot: Fungus that causes black/purple spots to develop on the leaves of 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 spread to humans by a vector (typically mosquitoes).
4. Bacterial infect	tion and preventing disease	2			Red Amber Green
Key terms/definition Bacteria Disease: An illness which is control of Bacter Salmonella – caused Gonorrhoea – Sexua	aused by a bacterial pathog <b>ia:</b> d by food poisoning. ally transmitted disease	gen. Bacteria ente	rs the body and infects it	t.	
Salmonella:	,		Gonorrhoea:		
- Symptoms vomiting, c	of salmonella include: Feve diarrhoea.	er, abdominal crar	np, - Sympto from the	ms of gonorrhoea e penis or vagina, <sub> </sub>	include: Green discharge painful to urinate.
- Transmitte	ed by ingesting contaminate	d food.	- Transmi	itted through unpr	otected sex.

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



#### 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 engulf and digest 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





**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

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

**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.

#### **Developing Drugs** Red Amber Green 8. 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) 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. lest on patients 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.

#### 9. Basics Of Photosynthesis





# 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

#### 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





#### 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?	

# Biology Year 10 Block 2 – B4, Bioenergetics, B5a, The Nervous System, B5b The Endocrine

System

#### TERM FOCUS – Big Ideas

#### Prior Learning Links

- 1. KS3 Organelles that are found in living organisms (plant, animal, bacteria).
- 2. KS4 Reaction time, body reacts to a stimulus.
- 3. KS3/4 Factors that affect photosynthesis/plant growth.
- 4. KS4 B2a Organs, respiration, chemistry of food.

#### **Future Learning Links**

- 1. B7 Ecology
- 2. B6a Genes, reproduction.
- 3. GCSE required practical activities.



1. Inverse Square Law	<b>Red</b> Amber Green
This is the 'proportional to' symbol. light intensity $\propto \frac{1}{\text{distance (d)}^2}$ Putting one over the distance shows the inverse. The distance is squared.	Key terms/Definitions: Inverse Square Law: - As the distance increases, light intensity decreases.
<ul> <li>As the distance increases, the light intensity decreases.</li> <li>The distance and light intensity are inversely proportional to each other.</li> </ul>	Proportional symbol: - ∝ Inverse Square Law Equation: - Light intensity = ∝ 1 ÷ distance <sup>2</sup>
2. Artificially controlling plant growth	Red Amber Green
1. Temperature	Key terms/Definitions:
Greenhouses help to trap the Sun's heat (see Figure 2), and make sure that the temperature doesn't become limiting.	<ul> <li>Greenhouse:</li> <li>A glass building in which plants that need protection from cold weather are grown.</li> <li>Photosynthesis: <ul> <li>How plants use</li> </ul> </li> </ul>
<ul> <li>Fremperature</li> <li>Greenhouses help to trap the Sun's heat (see Figure 2), and make sure that the remperature doesn't become limiting.</li> <li>Feat harring the sun greenhouse free figure 2. And make sure that the sun the</li></ul>	<ul> <li>Greenhouse:</li> <li>A glass building in which plants that need protection from cold weather are grown.</li> <li>Photosynthesis: <ul> <li>How plants use light to make their own food.</li> </ul> </li> </ul>

Optimum temp	sistential of both states and sta	0 35 40 45 50 have (*C) prowth is 37 – 40 Degree	es Celsius.	<ul> <li>Water</li> <li>Products of photosynthesis: <ul> <li>Oxygen</li> <li>Glucose</li> </ul> </li> </ul>
3. Aerobic Res	piration			<b>Red</b> Amber Green
Reaction	Reactants	Products		Key terms/Definitions:
neuction	heattaints	Troducts	_	Respiration:
Aerobic	Glucose and	Carbon Dioxide +	_	- Respiration is the
respiration	Oxygen	Water		process of
Respiration: - All livin - The met - Exotherr - Used for running) • Limewat a waste p • When pr	g things respire (anithod of releasing enemic (Transfers energe endurance activities). ter can be used to shorodcut of aerbic respected.	mals, plants etc) rgy from their food. y to the surroundings) s (long distance ow Carbon Dioxide a piration. newater cloudy.	straw	<ul> <li>energy from glucose.</li> <li>Aerobic respiration: <ul> <li>Respiration that uses oxygen.</li> </ul> </li> <li>Mitochondria: <ul> <li>Site of cellular respiration</li> </ul> </li> <li>Reactants of Aerobic</li> </ul>
Organisi contracti	ns use energy for: B on, maintaining bod	<ul> <li>uilding larger molecules by temperature.</li> <li>A cold pane of to show Water as a</li> </ul>	s, muscle glass can be used	Respration: - Glucose - Water Prodcuts of Aerobic Respiration:

• When you blow onto it, condesation creates water droplets.

- Carbon dioxide -
- Water -
- Energy \_

#### 4. Anaerobic Respiration

Reaction	Reactants	Products
Anaerobic respiration	Glucose	Lactic acid

- Anaerobic respiration usually occurs when the body is put through vigorous exercise.
- Can only be used for a limited time.
- Used in strength and power activities (sprinting).
- Anaerobic Respiration in plants looks slightly different...
- This process is called Fermentation.

An oxygen debi	is the
amount of ex	xtra
oxygen needea	l after
exercise.	)-
	L /
6	

dabt is th

glucose  $\rightarrow$  ethanol + carbon dioxide

	Aerobic respiration	Anaerobic respiration
Energy released	Releases more energy	Releases <b>less</b> energy
Fuel used	Glucose and oxygen	Glucose <b>only</b>
Relative speed	Slower	Faster
Waste product	Carbon dioxide	Lactic acid
How is waste removed?	Via the blood to the lungs (breathed out)	Via the blood to the liver (processed) / oxidation
How long can it happen for?	Unlimited time	Limited time
Does it have any negative effects?	None	Lactic acid is toxic – leads to muscle fatigue

#### 5. Exercise and Metabolism

#### The recovery Period

During vigorous exercise the muscle fatigue. This is caused by the lack of oxygen reaching them.



# RedAmberGreenKey terms/Definitions:Respiration:

Respiration is the process of transferring energy from glucose.

Anaerobic respiration: - Respiration without oxygen.

Reactant of Anaerobic Respiration:

- Glucose

Product of Anaerobic Respiration: - Lactic Acid

Cytoplasm: - The site of anaerobic respiration.

#### Oxygen Debt:

- The extra oxygen your body needs after exercise to react with the build-up of lactic acid and remove it from cells.

#### Red Amber Green

Key terms/Definitions:

Metabolism:

- Sum of all chemical reactions in the body.

#### Exercise:

- activity requiring physical effort, carried out to sustain or improve health and fitness

#### Recovery period:

- The repayment of oxygen (oxygen debt) back to resting heart rate.

#### **Responses to exercise:**

- The blood flow to muscles increases and supplies them with more oxygen and glucose.
- Increases the rate that carbon dioxide is removed from muscles.
- Breathing rate increases more oxygen enters the bloodstream.
- Breath volume increases therefore, more oxygen enters your bloodstream.
- Arteries to muscles dilate, this means they get wider to increase the blood flow to muscles and supply them with more oxygen and glucose.
- Glycogen is converted to glucose to supply the cells.





Homeostasis is the regulation of the conditions inside your body (and cells) to maintain a stable internal environment, in response to changes in both internal and external conditions.

Receptor  $\rightarrow$  Coordinator  $\rightarrow$  Effector



The conditions in your internal environment that need regulating include:

- Body Temperature (37.0 °C)
- Blood glucose
- Water content of the body.



### Red Amber Green

Key terms/Definitions:

Receptors:

- an organ or cell able to respond to light, heat, or other external stimulus and transmit a signal to a sensory nerve.

Effectors:

- an organ or cell that acts in response to a stimulus

Synapse:

- A connection between two neurons.

Reflex:

- Fast, automatic response to a stimuli.

Reaction time:

- Time taken to react to a stimulus.



motor

neurone

relay

neurone

sensory

neurone

#### Three types of Neuron:

- Sensory neuron
- Relay neuron
- Motor neuron



<b>9.</b> Reaction time (required practical)		Red	Amber	Green
<ul> <li>Person 2 – Drop ruler</li> <li>Person 2</li> <li>Vertical ruler</li> <li>O cm mark between Person 1's thumb/first finger</li> <li>"Prepare to catch"</li> <li>Person 1</li> <li>Dominant hand</li> <li>Sitting</li> <li>Good upright posture</li> <li>Eyes across the room</li> <li>Forearm across table</li> <li>Hand overhanging table</li> </ul>	<ul> <li>Person 1 – catch ruler</li> <li>Record distance (cm) on ruler above thumb</li> <li>Rest and repeat 1 to 5 several times</li> <li>Swap Person 1 and 2 over</li> <li>Swap Person 1 and 2 over</li> <li>Change the factor</li> <li>Repeat 1 to 3</li> </ul>			
10 11		D I		C
10. Hormones         Endocrine system:         This is the collection of glands that produce hor         following:         1. Metabolism         2. Growth and development         3. Tissue function         4. Sexual function         5. Reproduction         6. sleep         thyroid         Princeal gland         Pituitary gland         Thyroid gland         Thyroid gland         Pancreas         Ovary         Testes	emones to regulate the	Key te Hormo - Glands - Insulir - Adrens -	Amber rms/Definition one: Chemical messengers by glands i blood and of a target orgorgans. S: An organ v secretes pachemical suf- for use in the that contrological blood gluco aline: A hormone which prep- body for fig- flight.	s released nto the carried to gan or which rticular ubstances he body. e secreted ls your ose e secreted vares the ght or



						two types; type 1 and type 2.
Sympt	toms of diabetes:				Type 1	l diabetes:
$\succ$	Blurry vision	_	5. Diab	etes		
	Always thirsty Always tired		Type 1	Type 2	-	The body cannot produce enough
	Always hngry Sexual problems	Causes	Body's immune system attacks pancreas cells	Poor diet and obesity over a long period of time		insulin, often requires daily
>	hands or feet Wounds that won't	Effect	Pancreas no longer makes insulin	Liver cells do not respond to insulin in the blood		and blood sugar monitoring.
$\triangleright$	heal Sudden weight loss	Result	Blood sugar rises	Blood sugar rises	Type 2	) diabetes:
>	Frequent urination	Treated by	Injections of insulin	Carbohydrate controlled diet, exercise and medication	-	Blood sugar becomes too high, type 2 is often lifestyle caused.
<b>12.</b> Me	enstrual Cycle				Red	Amber Green
	Menstruation	18000	Ovulation (eg	g is released)		
	<ul> <li>Follicle stimular         <ul> <li>Causes t</li> <li>Luteinising hor</li> <li>Stimulat</li> </ul> </li> <li>Oestrogen and log Growth</li> </ul>	ting hor he egg t mone (1 es the r Progest and ma	rmone (FSH) to mature LH) release of the egg rerone intenance of ute	g erus lining		
-	Oestrogen is the female production. Testosterone is the male snorm production	e repro le repro	ductive hormon oductive hormon	e and produced by the and is produced l	the ovar by the te	ries. Stimulates eggs estes. Stimulates
	sperm production.	ollicle horm	stimulating one (FSH)	y gland luteinising hormone (LH)		

ovulation oestrogen progesterone

HOME LEARNING TASKS	
Task Description	Done?
What are the 4 factors that affect plant growth?	
What is the equation for anaerobic respiration?	
List the major glands in the human body.	
What are the three types of neurons?	
What is the difference between aerobic and anaerobic respiration?	
What is the male and female reproductive hormones and where are they produced?	
What is the role of insulin?	
What is the role of glycogen?	
What is the difference between type 1 and type 2 diabetes?	
Explain the process of the body reacting to a stimulus, using the words: Receptor, CNS and	
Effector.	
Write the method for the ruler drop reaction time test.	

### 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 <sup>-</sup> 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



Neutralisation Reaction	: <mark>Acid</mark> + Alkali →	Salt + Water
lonic Equation:	H⁺ + OH⁻ →	H <sub>2</sub> O



#### **OH**<sup>-</sup> = Alkaline solution

#### **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.





7. Metal oxides and redox	Red Amber Green
Extracted using electrolysis.       The Reactivity Series         Potassium       K         Sodium       Na         Lithium       Li         Calcium       Ca         Magnesium       Mg         Carbon       C         Zinc       Zn         Iron       Fe         Hydrogen       H         Copper       Cu	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         Oxidation can be defined as an element gaining an oxygen atom.         Reduction can be defined as a compound losing an oxygen atom.         If a metal is lower than carbon in the reactivity series it can be extracted by a reduction reaction with carbon. For example:         Iron oxide + Carbon → Iron + Carbon dioxide         2Fe <sub>2</sub> O <sub>3</sub> + 3C → 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 reactivity series, it must be extracted by a least-abuic
0 Dedeu Desetieus	must be extracted by electrolysis.
Displacement reaction: $\underline{Zinc} + Copper Sulphate \rightarrow \underline{Zinc} Sulphate + Copper$ $\underline{Zn} + Cu^{2+} SO_4^{2-} \rightarrow \underline{Zn}^{2+} SO_4^{2-} + Cu$ Half equations: $Zn \rightarrow Zn^{2+} + 2e^-$ (Oxidation) $Cu^{2+} + 2e^- \rightarrow Cu$ (Reduction)	<ul> <li>Key Definitions</li> <li>Redox Reaction: A reaction where one substance in reduced and another substance in oxidised.</li> <li>Displacement reaction: A reaction where a more reactive element replaces a less reactive element in a compound.</li> <li>Half equation: An equation which shows how electrons are transferred when a substance is reduced or oxidised.</li> <li>Oxidation: When substances lose electrons.</li> <li>Reduction: When substances gain electrons.</li> <li>OIL RIG: Oxidation is Loss Reduction is Gain.</li> <li>Oxidation and reduction can also be described in terms of losing and gaining electrons. (H)</li> </ul>
Reaction of metal and acid: $Fe_{(s)} + 2HCl_{(aq)} \rightarrow FeCl_{2(aq)} + H_{2(g)}$ Half equations: $Fe_{(s)} \rightarrow Fe^{2+}_{(aq)} + 2e^{-}$ (Oxidation) $2H^{+}_{(aq)} + 2e^{-} \rightarrow H_{2(g)}$ (Reduction)Ionic equation: $Fe_{(s)} + 2H^{+}_{(aq)} \rightarrow Fe^{2+}_{(aq)} + H_{2(g)}$	<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 reduced then this is a redox reaction. (H)</li> <li>Examples of redox reactions are displacement reactions and reactions of metals with acids. (H)</li> <li>To identify which species has been oxidised in an equation first identify each elements ionic charge in solution. The ion whose charge has increased (lost</li> </ul>
	electrons) has been oxidised, and the ion whose charge has decreased (gained electrons) has been reduced. (H)



C athode

#### Electrolysis of lead bromide (Higher)

 $Pb^{2+}_{(aq)} + 2e^{-} \rightarrow Pb_{(s)}$ 

 $2Br_{(aq)} \rightarrow Br_{2(g)} + 2e^{-1}$ 

Forms solid metal Lead

At Cathode:



Forms gaseous bromine

At Anode:

Negative ion oxidised at anode

#### 10. Electrolysis of Metal Ores



#### Half equations (Higher)

Negative electrode:  $AI^{3+}+3e^{-} \rightarrow AI$ 

Positive electrode:  $2O^2 \rightarrow O_2 + 2e^2$ 

RedAmberGreenKey definitionsElectrolysis: The process of breaking down a substance<br/>using electricity.Electrolyte: A liquid or solution used in electrolysis to<br/>conduct electricity between the two electrodes.Electrode: An electrical conductor which submerged in<br/>the electrolyte during electrolysis.Anode: Positively charged electrode.Cathode: Negatively charged electrode.In dissolved or molten ionic compounds, the ions are<br/>free to move.

When an electric current is passed through a liquid or dissolved ionic compound that compound decomposes (ions separate). This is called electrolysis.

In **electrolysis** the positive ions move towards the negative electrode **(cathode)** and negative ions move towards the positive electrode **(anode)**.

At the **cathode** positive ions are **reduced**. (H) At the **anode** negative ions are **oxidised**. (H)

At the **cathode** the metal ions react to form the metal element.

At the **anode** the non-metal ions react to form the non-metal element.

#### Key terms

**Ore:** A naturally occurring solid material from which a metal can be extracted.

Red Amber Green

Bauxite: The main ore of aluminium.

**Cryolite**: a less commonly occurring ore of aluminium with a lower melting point.

Electrolysis must be used to extract metals from their ore if the metal is more reactive than carbon

Extracting metals using electrolysis is very expensive as It requires a lot of energy to melt the metal ore in order to allow the ions to move.

Aluminium is extracted from its ore (Bauxite) using electrolysis.

Bauxite is purified to give Aluminium oxide which is dissolved in molten cryolite in order to lower the ores melting point.

Aluminium will form at the cathode and oxygen will form at the anode.

Electrodes are made of carbon (graphite) as they are good conductors of electricity.

Sometimes the oxygen reacts with the carbon in the electrode to make carbon dioxide, this means the electrode may need replacing.

#### 11. Electrolysis of aqueous solutions Red Amber Green Key terms Aqueous solution: Solution containing a substance dissolved in water. H<sup>+</sup>: Positively charged Hydrogen ion OH: Negatively charged Hydroxide ion d.c. power flow of supply flow of When carrying out electrolysis on an aqueous solution electrons electrons $H^+$ and $OH^-$ ions will also be present. oxygen molecule negative electrode sulfate ion positive Only one ion can move to each electrode to forms the (cathode) lectrode 6 products. (anode) The products formed at each electrode depends on the reactivity of the ions. laver of copper metal hydroxide ion In an aqueous solution the least reactive positive ion will always move to the anode. CuSO, solution copper ion hydrogen ion water molecule In an aqueous solution OH<sup>-</sup> ions will always move to the cathode unless there are halide ions present (Cl<sup>-</sup>, Br⁻, I⁻). When OH<sup>-</sup> ions reach the cathode oxygen and water is produced. 12. Required Practical 9 Red Amber Green Electrolysis of aqueous solution practical 0 0 1. use a measuring cylinder to add 40 ml of copper chloride solution into a beaker Anode place two graphite rods into the copper sulfate 2. Cathode solution - attaching one electrode to the negative terminal of a dc supply, and the other electrode to the positive terminal 3. place two small test tubes over each electrode to collect any gases produced 4. turn on the power supply and observe what happens at each electrode test any gas produced by holding a piece of 5. Copper chloride blue litmus next to the electrode, or by holding solution a lit splint next to it 6. record your observations and the results of Chlorine: Damp litmus paper turns white. your tests 7. rinse the electrochemical cell apparatus and Hydrogen: Makes squeaky pop sound with a lit splint. collect a new set of electrodes 8. repeat steps 1-6 using sodium chloride **Oxygen:** relights a glowing splint. 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 2.5 g/dm<sup>3</sup>. Calculate the mass of calcium carbonate dissolved in 300 ml of water. Write the half equation for the reaction that occurs at the anode when molten aluminium oxide undergoes electrolysis. State whether this reaction is a reduction or oxidation reaction.

Describe a method for making and extracting zinc nitrate salt in a solution.

Describe a method for verifying the products of the electrolysis of Zinc chloride solution. Remember to state the products at each electrode and how you will test for these products.

## Science Year 10 Term 2 – C7, C8 & C9 – Organic Chemistry, Chemical Analysis & Chemistry of Atmosphere.

Big Ideas: How can we make crude oil useful?	
How can we test for different substances?	
What affects the composition of the atmosphere?	
Prior Learning Links Organic Chemistry Basic Organic Functional Groups: Understand the structures and properties of hydrocarbons. Naming Organic Compounds: Revise IUPAC nomenclature rules for naming alkanes, alkenes, and other functional groups. Chemical Analysis Chromatography: Separation techniques. Chemistry of the Atmosphere Major components of the atmosphere, including nitrogen, oxygen, argon, carbon dioxide, and trace gases. Understand the greenhouse gases and their role in climate change. Air Pollution: Sources, effects of pollutants like sulphur dioxide, nitrogen oxides, and particulate matter.	<ul> <li>Future Learning Links</li> <li>1. KS3 Science Investigations</li> <li>2. GCSE Required Practical Activities</li> <li>3. GCSE Science Investigations</li> </ul>

CA The Abbe




<u>C8 – Chemical analysis</u> LESSON 1 -Purity and formulations

practical

Amber

a "pure" substance?	single element or	PURITY	1. Keywords			
How can pure ubstances be distinguished from mpure ones?	compound By their melting/boiling points	A pure substance consists only of one <u>element</u> or one <u>compound</u> Pure substances have a sharp <u>melting point</u> but mixtures <b>melt</b> over a range of temperatures. This difference is most	Pure substance	A single element or compound not mixed with any other substance. The have a specific melting and boiling point		
What is a formulation?	A complex mixture designed as a useful	easily seen when the temperature of a liquid is measured as it cools and <b>freezes</b> .	Melting point	The temperature at which a solid turns to a liquid		
What is hromatography?	A process to separate the constituents of a mixture	Formulations	Boiling point	The temperature at which a liquid turns to a gas		
How is the Rf value calculated?	distance moved by spot/distance moved by solvent	A <u>formulation</u> is a mixture which has been designed as a useful product. Formulations are all around us, for example: • fuels	Formulation	A mixture that has been designed as a useful product eg fuels, cleaning agents, medicines and fuels		
How can hydrogen be tested for?	Makes a squeaky pop when lit a splint is	cleaning products     paints     formulation succession chamical has been added in a specially	Chromatography	Use to separate mixtures and identif substances		
How can oxygen be	Placed in it Relights a glowing	measured amount. Each chemical has a specific purpose in the formulation.	Rf	(distance moved by substance)/(distance moved by solvent)		
Ivent front $\longrightarrow$ v position $\longrightarrow$ compound $\longrightarrow$ origin $\longrightarrow$	2.1cm 2	$\begin{array}{c} \text{solvent front} \longrightarrow \\ \text{new position} \longrightarrow \\ \text{of compound} \end{array}$	2.1cm	2.8 cm Testing for		
R <sub>f</sub> =	$\frac{2.1}{2.8} = 0.75$	oxygen P <sub>t</sub> = Testing for hydrogen Testin	$\frac{2.1}{2.8} = 0.75$	Testing for hydrogen		
chlorine litmus p	e using paper	ARBON DIOXIDE AS IMEWATER Construction IMEWATER Construction Chloring Itmus Chloring for CO <sub>2</sub>	e using paper	Testin for CC		
1						



1. Compositio	on of the earths atmosp	here now	3. Climate change				
'9% Nitr	ogen		Greenhouse gases	Gases	which	increase the tempera	ture of the atmosphere
0% Ox	ygen			Eg Carbon dioxide, memane, water vapour			
1% Other gases including CO <sub>2</sub>			Greenhouse effect	When back	When excess greenhouse gases absorb and radiate IR radiate back to the earth warming it		
NI	ROG{N: 78/		Man-made climate change	The le in glol	ading ti oal tem	heory that human acti perature	ivities are causing an increase
		CARBON DIOXIDE: 0.047	Carbon footprint	Total o service	amount e or eve	of carbon dioxide em ent	itted over the life of a product,
	COXYG	ALL OTHER GASES O OG/	Global dimming	Partic tempe	ulates b erature	lock the light from the	sun slightly, reducing global
	WHY		Acid rain	Gases and tr	dissolv ees	e in rain causing dama	age to buildings, statues, lakes
. Evolution o	f the atmosphere		4. Atmospheric pollut	lants from c	ombus	tion	
ime	Atmosphere	reason	Pollutant		Source		Effect
billion years	Nitrogen, Carbon dioxide and water vapour (like mars)	Volcanic erruptions	Carbon dioxide		All com	bustion	Global warming
Nitrogen, Carbon dioxide decreases	Nitrogen, Carbon dioxide	Earth cools and water vapour condenses.	Carbon monoxide		Incomplete combustion		Toxic, breathing problems
	decreases	Carbon dioxide dis- solves into the oceans	Carbon particle (Soot) Incomp		blete combustion	Breathing problems, global dimming	
2.7 billion years ago bon dioxide		Photosynthesising or- ganisms evolved	Sulfur dioxide		Burning sulphur, impurities in fossil fuels		Acid rain
	Reducing oxygen to modern levels Animals evolved and began respiring the		Oxides of nitrogen	N Vehicle engines		engines	Acid rain
- Chemist nge	to modern levels	began respiring the oxygen here LESSON 2- Gre	enhouse gases an	d climat	e R	ed	Amber Gi
hemistr	v Knowledge O	raaniser		Key Tern	ns	Definitions	and the second sec
C13 - The	Earth's atmos	ohere		Greenho Layer	use	The layer of gases wh from the Earth	ich absorb infra red radiation emit
or 200 millio een much t 78% nitrog 21% oxygei	The on years, the amount he same as they are to en n	Atmosphere of different gases in the a oday:	tmosphere have	Scientists are ago (4.6 billio atmosphere	e not sur on years) was mad	The Evolution of the e about the gases in the e ) and the lack of evidence de up of mainly carbon di ammonia and nitrogen	Atmosphere early atmosphere, as it was so long . Many scientists believe the early oxide, water vapour and small released hy volcanoes. There was

 The atmosphere also contains small proportions of various other gases, including carbon dioxide, water vapour and noble gases.

#### The Greenhouse Effect

The Earth has a layer of gases called the Greenhouse layer. These gases, which include carbon dioxide, methane and water vapour, maintain the temperature on Earth high enough to support life.

The greenhouse layer allows the short wave infrared radiation emitted by the Sun to pass through it but absorbs the long wave infra red radiation which is emitted by the Earth. This is how it insulates the Earth.

Some human activities increase the amounts of greenhouse gases in the atmosphere. These include:

- combustion of fossil fuels
- deforestation

• methane release from farming

• more animal farming (digestion, waste decomposition)



little or no oxygen around at this time. The early Earth was very hot, but as it cooled the water vapour in the atmosphere condensed and formed the oceans.

As the oceans formed, carbon dioxide dissolved in the ocean. The carbon dioxide formed carbonates and precipitated out (formed solids). This process reduced the amount of carbon dioxide in the atmosphere.

Approximately 2.7 billion years ago, plants and algae evolved. This decreased the amount of carbon dioxide in the atmosphere and increased the amount of oxygen in the atmosphere.

When sea animals evolved they used the carbon dioxide in the ocean to form their shells and bones (which are made of carbonates). When these sea creatures died their shells and bones became limestone (calcium carbonate), which is a sedimentary rock.

Once enough oxygen was in the atmosphere, it could support animals, which carry out respiration. These processes have caused the levels of gases in the atmosphere to be where they are today.

#### Changes in the atmosphere

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Recent activity by humans has changed the composition of the atmosphere. Combustion of fossil fuels has increased the amount of carbon dioxide in the atmosphere as well as other harmful gases such as nitrous oxides, which are made by nitrogen reacting with oxygen in the air.

Sulphur is also present in many fuels, this has increased the amount of sulphur dioxide which causes acid rain. Carbon particles can also released as can carbon monoxide from incomplete combustion.

C9 – Chemistry of the atmosphere LESSON 3 AND 4 Carbon footprints/Air pollution.

Amber Green



Think of one experiment that you have done in the last term and write a conclusion question for it.

## 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 and **electrons** that move around the nucleus. Most of the mass of the atom is concentrated in the nucleus, which is in turn made up 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**



3. GCSE Science Investigations
Support Resources <u>GCSCEPOD</u> ATOMIC STRUCTURE <u>https://members.gcsepod.com/shared/podcasts/chapter/89166</u>
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
<u>Bitesize</u>
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	Definition/answer		Subatomic parti	cle properties	P4 - Atomic structure
1. What are the three subatomic particles?	Protons, neutrons and	Protons, neutrons and electrons		s the mass of a proton?	1	
2. Which subatomic particles are found in the nucleus?	Protons and neutrons	Protons and neutrons		s the mass of a neutron?	1	5. Half-life
3. Which subatomic particle orbits the nucleus?	Electrons		What it	What is the mass of an electron? 0 (1/:		A B C D E
4. The mass number is	number of protons and	neutrons. (Big number)	What is	s the charge of a proton?	+1	
5. The atomic number is	number of protons and	therefore the number of electrons (Small number)	What is	s the charge of a neutron?	0	
6. Define ion.	An atom gains of lose e	lectrons to become charged.	What is	s the charge of an electron	1? -1	-drest dess diam -2/mm
7. What is an isotope?	Same element with the	same number of protons, but different number of neutrons.		2. Timeline of	the atom	t=0 years (=12 vears
<ol> <li>8. What is the structural difference between Carbon- 12 a 14?</li> </ol>	nd Carbon- Number of neutrons		Date	Model of the atom	Diagram	Half life: The time taken for the number of radioactive nuclei/decay events to decrease by
9. What are the three types of radioactive decay?	Alpha, Beta, Gamma	Alpha, Beta, Gamma		indivisible spheres		half.
10. What is an alpha particle composed of?	A helium nucleus: two ;	protons and two neutrons.		at the first		Calculating half-life from a
11. What is a beta particle?	A fast-moving electron	A fast-moving electron		model	(•1•)	Activity of Sample A Over 2 Minutes
12. How does beta decay occur?	A neutron in the nucleu electron is elected.	A neutron in the nucleus turns into a proton and electron. The proton remains and the electron is ejected.			6.9	120
13. What is gamma radiation?	An electromagnetic wa	An electromagnetic wave emitted from the nucleus		909 Nuclear model following Rutherford's experiment	00	2 100 2 80
14. What was Rutherford's experiment and why was it im	portant? Rutherford fired alpha bounced back, disprovi dense nucleus.	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.			)	60 A01 40
15. What is irradiation?	When an object is expo	When an object is exposed to radiation		Bohr model		20
16. What is contamination?	When radioactive mate	When radioactive material gets on an object.			000	0 50 100 13 Time (s)
17. How is radiation measured?	Using a Gelger-Muller counter. (In Becquerels: Eg)				$ ((\bullet)) $	
3. Radioactiv	e Decay	4. Nuclear equations			00	1. Choose two values from the
Alpha Beta particles particles	Gamma waves	Alpha decay $\overset{226}{_{88}}$ Ra $\xrightarrow{4}$ $\overset{222}{_{86}}$ Rn + $\overset{4}{_{2}}$ 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 ionising	Most penetratin Least ionisi	$ \begin{array}{c} Beta \\ decay \end{array} \stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}{\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\stackrel{\text{Beta}}}\text{$	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>

Red

Green

Amber

Scientist	Time	Contribution	
John Dalton	Start of 19th century	Atoms were first described as solid spheres.	1. What are th
JJ Thomson	1897	Thomson suggested the plum	particles?
		pudding model - the atom is a ball of charge with electrons scattered within it.	2. Which suba the nucleus?
			3. Which suba nucleus?
Emest Rutherford	1909	Alpha Scattering experiment - Rutherford discovered that the mass is concentrated at	4. The mass nu
		the centre and the nucleus is charged. Most of the mass is in the nucleus. Most atoms	5. The atomic
Niels Bohr	Around 1911	Bohr theorized that the electrons were in shells	6. Define ion.
		orbiting the nucleus.	7. What is an i
James Chadwick	Around 1940	Chadwick discovered neutrons in the nucleus.	8. What is the between Carb

Key term/question	Definition/answer
1. What are the three subatomic particles?	Protons, neutrons and electrons
2. Which subatomic particles are found in the nucleus?	Protons and neutrons
3. Which subatomic particle orbits the nucleus?	Electrons
4. The mass number is	Number of protons and neutrons. (Big number)
5. The atomic number is	number of protons and therefore the number of electrons (Small number)
6. Define ion.	An atom gains of lose electrons to become charged.
7. What is an isotope?	Same element with the same number of protons, but different number of neutrons.
8. What is the structural difference between Carbon- 12 and Carbon-14?	Number of neutrons





es ope rof roi r, t	e is an el f protons l ns. They l but differ	lement wit but a differ have the sa ent mass no	h the same ent number ame atomic umbers.	Atomic Number and Mass Number Mass number: This is the total of protons+neutrons
pe	Protons	Electrons	Neutrons	Na
]	1	1	o	Marca
	1	1	1	Atomic number: This is the number of protons
	1	1	2	Therefore sodium has 11 protons, 11 electrons and 23-11= 12 neutrons

Amber

#### 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)



## 

#### 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 small	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



Red



#### ATOMIC STRUCTURE TRIPLE

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

Amber

Green

Section 8: Ke	y Terms	Section 1	0: Nuclear Fission			
Background	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.				
radiation	<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 read of nuclear fission. In induced fission	tor because n, the	because	
Radiation dose	dose A measure of the <b>amount of exposure</b> to <b>radiation</b> , measured in <b>sieverts (Sv)</b> .		nucleus of an atom is struck by a neutron, causing the nucleus to split into two smaller fragment nuclei. Energy is also released.		Induced fission	
Radioactive isotopes	Radioactive sotopesIsotopes used in medicine for medical imaging, treatment of cancer and as tracers to monitor organs.Radioactive tracersTrace the flow of a substance through an organ.Nuclear FissionSplitting of an atom's nucleus into two smaller nuclei and the release of two or three neutrons and energy.Nuclear Fusionis 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.		<ul> <li>Unstable nuclei are bombarded with neutrons.</li> <li>The nuclei undergo fission and split.</li> <li>Two smaller nuclei are formed plus neutrons.</li> <li>Energy is released.</li> <li>Released neutrons cause more nuclei to split which produces a chain reaction.</li> <li>The reaction is controlled using control rods which absorb the neutrons (slowing down the chain reaction).</li> </ul>		th and a second s	
Radioactive tra					Chain reaction (extremely dangerous	
Nuclear Fission						
Nuclear Fusion						
Section 9: Ra	dioactive isotopes and medicine		<ul> <li>A coolant removes the heat energy</li> </ul>	rgy, usually	if not controlled). The explosion caused	
Used 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			to produce steam.		by a nuclear weapon is caused by an uncontrolled chain reaction.	
given out.		Section 1	1: Nuclear fusion			
Radioactive Tracers (like radioactive Iodine) contain a <b>radioactive isotope</b> that <b>emits</b> gamma radiation. Radioactive Iodine 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.		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> <b>releases energy</b> due to the <b>nuclear fusion</b> reaction of <b>hydrogen nuclei into helium nuclei</b>				
		Nuclear fission		Nuclear fusion		
Gamma 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 namma radiation. The half life of the radioactive isotope		Been used for over 50 years.		A developing technology. Needs to be at a high temperature and pressure for reaction take place and generate energy.		
cameras sh pro	ould not be too long (to avoid unnecessary risks) or too short (so a useful image oduced).	Uses uranium (only found in some parts of world)		Hydroger water	Hydrogen fuel easily available as present in sea water	
Gamma beams Ga	amma beams (or radioactive implants) can destroy cancer cells in a tumour.	Produces i stored safe	radioactive waste which has to be ely and securely.	Reaction	product helium is stable.	

Red

#### **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

Scalar	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

Mass 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





Red

Amber

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 an object. Forces have size and direction. Forces are the result 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

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

Red

#### Green

#### **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**

Amber

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

Amber

Red

#### 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.



Red Amber

HOME LEARNING TASKS	
Task Description	Done?
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.	
Describe 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 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.	
Give the definition of half-life.	











HOME	LEARNING TASKS	
Task E	Description	Done?
1.	Practice recall of the equations in lessons 1, 5 and 10. Use look cover write check to help with this.	
2.	Use each of the equations from lessons 5 & 10 using numbers from the table in lesson 4.	
3.	Draw a terminal velocity diagram for a parachutist falling through the air with labelled forces and a diver falling through the sea with labelled forces	
4.	Draw a sketch version of a distance-time graph for your journey to school – include things like accelerating each time you start moving, stopping at junctions, decelerating every time there is a need to stop.	
5.	Describe the method used to obtain motion data from lesson 11.	
6.	Explain the different forces and accelerations felt by a parachutist from leaving the plane down to the ground having opened their chute.	

## History Year 10 Term 2 – 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 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

**Interpretation** – an historian's particular view on an event/period or the significance or importance of certain features/factors in this event/period

**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 3 GCSE: Weimar & Nazi Germany 1918-1939 Core Vocabulary

Abdicate: To give up a position of power or responsibility, especially a throne or royal office.
Authoritarian: Favoring or enforcing strict obedience to authority at the expense of personal freedom.
Chancellor: The head of the government in some countries, such as Germany or Austria.
Coalition: An alliance for combined action, especially a temporary alliance of political parties forming a government.

**Constitution**: A set of fundamental principles or established precedents according to which a state or other organization is governed.

**Culture**: The ideas, customs, and social behavior of a particular people or society.

**Communist**: A person who supports or believes in the principles of communism, where all property is owned by the community and each person contributes and receives according to their ability and needs.

**Democracy**: A system of government by the whole population, typically through elected representatives. **Dictatorship**: A form of government in which a single person or a small group possesses absolute power 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	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?			

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 k	aiser?		
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?			
6. What were the causes and consequences of the hyperinflation crisis of 1923?	Red	Amber	Green
Can you identify the reasons behind the French occupation of the Ruhr and its effects on Germa	iny?		
Are you able to explain how hyperinflation affected various groups within German society?			
Can you evaluate the overall impact of the 1923 economic crisis on the stability of the Weimar	Republic?		
7. How did Gustav Stresemann contribute to the economic recovery of the Weimar Republic?	Red	Amber	Green
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 econom	ıy?		
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 domestic policy?	Red	Amber	Green
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?			
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
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## Subject Year 10 Term 2 – Weimar & Nazi Germany 1918-1939: The Rise of Hitler & the Nazi Party

In this unit, you will explore the origins and rise of Adolf Hitler and the Nazi Party from 1919 to 1933 within the broader context of Weimar and Nazi Germany. You will learn about key events such as the Munich Putsch, the Wall Street Crash, and Hitler's appointment as Chancellor. You will examine how Hitler gained support, manipulated events like the Reichstag Fire, and used legal and violent means to consolidate power. Through this, you will develop critical thinking skills, source analysis, and the ability to assess the impact of political, social, and economic factors on historical events.

#### **Prior Learning Links**

- Year 8 Term 5 Weimar & Nazi Germany
- Year 10 Term 1 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 – Scan Me!

#### **KEY VOCABULARY KEY WORDS** Paper 3 GCSE: Weimar & Nazi Germany 1918-1939 Core Vocabulary Cause - the reason for something happening Authority - The power or right to give orders, make **Change** – when things are different to how they were before decisions, and enforce obedience. **Consequence** – the result of something happening Authoritarian: Favoring or enforcing strict obedience to **Continuity** – the opposite of change; when something stays the authority at the expense of personal freedom. same or continues Chancellor: The head of the government in some Difference – the ways in which things are different to one another countries, such as Germany or Austria. Factor – something that can affect, or determine an event or Coalition: An alliance for combined action, especially a outcome temporary alliance of political parties forming a Inference - a conclusion drawn about something using the government. information you already have about it Collapse – A sudden failure or breakdown of an Interpretation – an historian's particular view on an event/period organization or system. or the significance or importance of certain features/factors in Consequence - The result or effect of an action or this event/period decision, often something negative. Rate of change – the pace at which change occurs; e.g. very Constitution: A set of fundamental principles or quickly or slowly established precedents according to which a state or Reliability - the degree to which something can be trusted or other organization is governed. relied upon as accurate Dictator - A leader with total power over a country, Significance – the importance of something typically one who has obtained control by force. Similarity - the quality of being similar, or the same **Economic** – Relating to the economy, the system by Trend – when there are a number of similar and related changes which goods and services are produced, distributed, and continuing in the same direction over a period of time consumed. **Turning point** – a significant change happens – something that is Ideology – A system of ideas and ideals, especially one different from what has happened before and which will affect that forms the basis of economic or political theory and the future policy. Influence - The capacity to have an effect on the behaviour or decisions of someone or something. **Opposition** – Resistance or dissent expressed in action or argument against something. Reorganise - To arrange or structure something in a new way to improve it. Support – Assistance or backing provided to someone or something, especially in political or social contexts. Paper 3 GCSE: Weimar & Nazi Germany 1918-1939 Specific Vocabulary

- 1. Bamberg Conference A 1926 meeting where Hitler reasserted his control over the Nazi Party and unified its direction.
- 2. **Communist Party** A political party advocating for communism, which gained support in Germany during the economic crisis.

- 3. Depression A severe and prolonged downturn in economic activity, like the Great Depression that started in 1929.
- 4. **Enabling Act** A 1933 law that gave Hitler the power to pass laws without the Reichstag, marking the start of his dictatorship.
- 5. **Führer** A title used by Adolf Hitler, meaning "leader," which symbolized his total control over Germany.
- 6. German Workers' Party (DAP) The precursor to the Nazi Party, which Hitler joined in 1919.
- 7. Gestapo Nazi Germany's secret police, tasked with suppressing opposition to Hitler's regime.
- 8. Goebbels, Joseph Nazi minister for propaganda
- 9. **Göring, Hermann** A key figure in the Nazi Party, Hermann Göring played a significant role as the founder of the Gestapo and as the head of the Luftwaffe (German Air Force). He was instrumental in consolidating Nazi power, overseeing economic and military strategies, and was second in command after Hitler.
- 10. Hindenburg President of Germany who appointed Hitler as Chancellor in 1933.
- 11. **Himmler, Heinrich** As head of the SS (Schutzstaffel) and one of Hitler's closest allies, Heinrich Himmler was responsible for overseeing the Nazi regime's security forces, including the Gestapo. He played a central role in organizing the Holocaust and enforcing terror within Germany and occupied territories, making him one of the most feared figures in the regime.
- 12. Lebensraum A key Nazi ideology that promoted territorial expansion for Germans, meaning "living space."
- 13. *Mein Kampf* A book written by Hitler outlining his political ideology and future plans for Germany.
- 14. **Munich Putsch** A failed 1923 coup attempt by Hitler to seize power in Bavaria, leading to his imprisonment.
- 15. Nazi Party (NSDAP) A political party led by Hitler that promoted nationalism, anti-Semitism, and dictatorship.
- 16. **Propaganda** Biased information used to promote a political cause or viewpoint, widely used by the Nazi Party.
- 17. Reichstag The German Parliament, where key political decisions were made before and during Hitler's rise.
- 18. **Reichstag Fire** A 1933 event where the German parliament building was set on fire, which Hitler used as an excuse to crack down on communists.
- 19. **Rohm, Ernst** Early member of the German Workers Party. Used his connections with the military to establish the SA, the paramilitary wing of the Nazi party.
- 20. **SA (Sturmabteilung)** Also known as the Brownshirts, a paramilitary group used by the Nazis to intimidate opponents.
- 21. **SS (Schutzstaffel)** Hitler's elite personal bodyguard, which later became one of the most powerful organizations in Nazi Germany.
- 22. **Twenty-Five Point Programme** The Nazi Party's political platform, which outlined its goals, including anti-Semitism and anti-communism.
- 23. Von Papen, Franz Appointed Chancellor in the chaos of 1932. Von Papen believed he could harness the power of the Nazis to his own gain, and keep Hitler under his thumb. Von Papen proposed a new government with Hitler as Chancellor, and himself as Vice-Chancellor in 1933 propelling Hitler to his first position of real power.
- 24. Von Schleicher, Kurt A rival for power with Adolf Hitler, von Schleicher was a German general and the penultimate chancellor of the Weimar Republic.
- 25. Wall Street Crash The 1929 stock market crash in the United States, which had global economic effects, including in Germany.

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1. What influenced Hitler's early political career?	кеа	Amper	Green
Can you explain Hitler's experiences during World War I?			
Are you able to describe how Hitler joined the German Workers' Party?			
Can you identify key ideas in the Twenty-Five Point Programme?			
2. Why did Hitler attempt to seize power in 1923?	Red	Amber	Green
Can you explain the reasons for the Munich Putsch?			
Are you able to describe the key events of the Putsch?			
Can you evaluate the consequences of the failed coup?			
3. How did the Nazi Party change after the Munich Putsch?	Red	Amber	Green
Are you able to explain how Hitler reorganized the Nazi Party?			
Can you describe the significance of the Bamberg Conference of 1926?			
Can you assess why the Nazi Party had limited support in the late 1920s?			
4. What impact did the Wall Street Crash have on Germany?	Red	Amber	Green
Can you explain the link between the Wall Street Crash and German unemployment?			
Are you able to describe how the economic crisis affected political stability?			
Can you assess how this crisis influenced support for the Nazis?			
5. Why did people support Hitler and the Nazi Party?	Red	Amber	Green
Can you identify the main reasons people were attracted to the Nazi Party?			
Are you able to explain the role of Nazi propaganda and the SA?			
Can you evaluate how Hitler's leadership style influenced public opinion?			

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## Geography Year 10 Term 2 – Economic Development in the UK

This topic explores the UK's changing economy, looking at how different sectors have developed over time. As the UK transitioned from an industrial powerhouse in the 19th and early 20th centuries, it now operates in a post-industrial economy where service-based (tertiary) and knowledge-based (quaternary) industries dominate. Students will examine key concepts like the north-south economic divide, the importance of sustainable industries, the role of transport infrastructure in economic growth, and the environmental impacts of industrial activities.

#### **Prior Learning Links**

• Year 8 Term 2 Economic World in KS3 examines the economy in the UK (nationally) before examining globally (The Middle East).

#### **Future Learning Links**

- Economic development and change in Nigeria
  - Urban change in Rio



#### **KEY WORDS**

- Sustainable: Meeting present needs without compromising future generations.
- **De-industrialisation**: The decline of manufacturing industries in an area.
- **Post-industrial**: An economy no longer dominated by manufacturing, but by services and technology.
- **Primary Sector**: Jobs involving extraction of raw materials (farming, fishing, mining).
- Secondary Sector: Jobs involving manufacturing or construction.
- Tertiary Sector: Service-based jobs (teaching, retail, healthcare).
- Quaternary Sector: Knowledge-based jobs (research, IT, science).
- Hi-tech: High technology industries, often in science parks.

## 1. What industries can you work in, and how does that affect the economy? **Red** Amber Green

**Overview of sectors:** 

The UK's economy is divided into four sectors:

- **Primary:** Involves extracting raw materials (e.g., agriculture, mining). It was historically significant in the UK but has greatly declined.
- Secondary: Focuses on manufacturing and construction (e.g., making cars, producing steel). This sector has also declined due to de-industrialisation, with many factories moving abroad to lower-wage countries.
- **Tertiary:** Involves services like retail, healthcare, and banking. This sector has grown rapidly, accounting for most UK jobs today.
- **Quaternary:** Involves high-tech industries, research, and development (e.g., IT, biotechnology). As the UK continues to innovate, this sector is expanding quickly.

**Economic evolution:** As a country develops, it usually shifts from primary and secondary sectors to tertiary and quaternary. The UK is an example of this shift, moving away from heavy industries to focus on finance, technology, and services

#### 2. What is a post-industrial economy, and how has it changed the UK? Red Amber Green Industrial decline:

Since the 1800s, the UK has seen a decline in industries like coal mining, shipbuilding, and textiles, which formed the backbone of its economy. This decline was driven by factors such as globalisation, cheaper labour in other countries, and technological advancements.

#### **Post-industrial UK:**

In recent decades, the UK's economy has shifted towards tertiary and quaternary industries. Today, services (e.g., banking, tourism) and high-tech sectors (e.g., computer science, pharmaceuticals) dominate. Cities like London are global financial hubs, while places like Cambridge are renowned for scientific research. This transition has helped the UK remain competitive in a globalised world.

#### 3. What are science parks, and why are they located near universities? **Red** Amber Green

#### Definition:

Science parks are areas that house technology-based companies, often located near universities to benefit from academic research and highly skilled graduates. They promote collaboration between businesses and academia, allowing companies to innovate and develop cutting-edge technology.



#### Why universities?

Universities provide access to research

facilities, expertise, and innovation, which help companies stay at the forefront of new technologies. Being located close to universities also allows companies to hire skilled graduates directly. Examples include Cambridge Science Park, which is near the University of Cambridge, a hub for tech and pharmaceutical research.

4. What are the environmental impacts of industry, and how can it be made more sustainable?

Amber Green

Red



#### Environmental impacts:

Industries can have major environmental consequences, such as air and water pollution, habitat destruction, and greenhouse gas emissions. For example, factories that rely on fossil fuels contribute to climate change, while mining can degrade ecosystems.

#### Sustainable industries:

Sustainable practices aim to reduce environmental harm. These include using renewable energy, recycling waste, and adopting cleaner technologies. Case studies like Nissan's Sunderland plant show how industries can adopt sustainable practices (e.g., electric vehicles) while remaining economically viable. Torr Quarry, Somerset, is an example of sustainable limestone extraction, where environmental impacts are minimised through careful management.

#### 5. How are transport and the economy linked?

Transport networks and economic growth: Efficient transport systems, including roads, railways, airports, and ports, are essential for economic development. They allow goods and services to be transported quickly, promote trade, and improve connectivity within and between countries. For example, Heathrow Airport serves as a key hub for global trade and tourism, while HS2 aims to link northern and southern UK cities, promoting regional economic growth.

#### Infrastructure and development:

Developing new transport infrastructure creates jobs, boosts economic activity, and helps attract businesses. The construction of projects like the HS2 high-speed rail line shows how transport can reduce regional disparities in economic development, connecting the north and south of the UK more efficiently.

#### 6. Why is the UK divided in half?

#### The North-South Divide:

There is a significant economic divide between the north and south of the UK. Southern regions, especially around London, have seen faster economic growth, more job opportunities, and higher wages

compared to the north, where industries like coal mining and manufacturing once thrived but have since declined. However, cities like Manchester and Liverpool are now experiencing regeneration and growing service industries.

#### Case studies:

London's financial sector contrasts with the industrial history of northern cities. However, northern cities are catching up through initiatives like the Northern Powerhouse, designed to stimulate economic growth in the region.

Red

#### 7. How are rural landscapes in the UK changing? Population growth vs shrinkage:

Rural landscapes in the UK are changing due to varying population trends. In areas near cities, like southern England, population growth has led to the expansion of commuter belts. Villages are turning into commuter towns, increasing demand for housing and services. In contrast, some rural areas in Scotland or northern England are experiencing depopulation as young people move to cities for better job opportunities.

#### Changing land use:

As rural populations grow or shrink, land use changes. More housing developments are needed in areas with growing populations, while depopulated areas may see farmland or traditional industries replaced by tourism or renewable energy projects.





Amber Green

HOME LEARNING TASKS	
Task Description	Done?
1. Revise key terminology	
2. Job sector questionnaire	
3. Sustainable business plan	
4. UK Transport research project	

Religion	
Peace + conflict	

#### **Big Questions**

- 1. Is it acceptable to use violence?
- 2. Should we forgive others?
- 3. Are there any universal laws?

### Is nuclear war acceptable?

Year: 10

Term: 2

Buddhists believe in prevention and solving a conflict (a pacifist approach.) However, out of compassion, right speech and right action injustice must be challenged. This is important because war doesn't always bring peace and in the modern world there is the threat of nuclear war/terrorism.

Already at its first meeting ever in 1948, the World Council of Churches (WCC) proclaimed that nuclear weapons are "a *sin against God and a degradation of man*". - However, Christian believe that violence is acceptable in war when it follows the laws set out in the just war theory.

"Even if thieves carve you limb from limb with a double-handed saw, if you make your mind hostile you are not following my teachings". *Majjhima-Nikkaya* 1:28-20 – Buddhism. What is the Just War theory?

The Just War theory was first developed by St Thomas Aquinas. Aquinas was one of the most influential theologians of the last 1,000 years. The theory set out conditions against which to judge whether or not a war should be waged (jus ad bellum) and if it could be justified, and how it should be waged (jus in bello).

#### Aquinas's conditions for a Just War – jus ad bellum

- The war must have a just cause e.g against invasion, or for self-defence - and not to acquire wealth or power.
- 2. The war must be declared and controlled by a proper authority, e.g the state or ruler.
- 3. The war must be fought to promote good or avoid evil, with the aim of restoring peace and justice after the war is over.

Later conditions developed by other Christians - jus in bello

- 1. The war must be a last resort when all peaceful solutions have been tried and failed, e.g negotiation.
- 2. The war should be fought with 'proportionality', with just enough force to achieve victory and only against legitimate targets, i.e civilians should be protected.
- 3. The good which is achieved by the war must be greater than the evil which led to the war.

**Ahimsa** is the principle of 'non-harm'. Most Buddhists try to practice ahimsa in their everyday lives and believe that it is wrong to show violence at any time. This means that it is possible that a Buddhist may therefore refuse to fight under any circumstances. Some Buddhists are **pacifists**, even when it comes to self-defence.

#### How do Buddhists help victims of war?

Buddhists may help refugees and victims of war in the following ways:

- 1. providing food and shelter for those who are displaced (forced to leave their home)
- 2. arranging or providing medical care for the sick and injured
- 3. setting up schools
- 4. creating a safe house for street children

5. educating villagers to protect them from human trafficking The Tibetan Buddhist Charitable Aid is a recognised charity which has helped improve the lives of the children of Tibet. The charity has helped child **refugees** in Nepal by building a Tibetan Youth Centre. The centre relies on volunteers who offer mental health counselling, practical training for job skills and employment counselling.

#### Desmond Dost (1919-2006)

Desmond Dost was an American Christian. He believed strongly in the 10 commandments. He fought in the army in WW2 without ever using a weapon. He saved 50-100 people. He believed that God protected him. Despite the danger he was in he would not ever kill because the 10 commandments state "thou shall not kill".

#### Key words:

Retaliation – to pay back for harmful action

Terrorism – use of violence and threats to intimidate, especially for political purposes to create a state of fear in a population.

Violence – causing harm to someone.

War – armed conflict between two or more sides.

Weapons of mass destruction – weapons which cause uncontrollable and untold damage – for example, nuclear weapons.

Nuclear weapons – a weapon of mass destruction.

## 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...

- 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 •
- Amber 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...





- 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....

6.	Why should you plan a wide range of	Red	Amber	Green
	ideas before selecting a final one?			

## *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)	
Can you describe the process of development in artists work?	
Complete tonal drawing of these <b>Barbara Hepworth</b> Sculptures, use light to heavy pressure and directional shading to make them appear 3D on the page:	
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/> <image/> <image/> <image/> <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?	
<ul> <li>Yayoi Kusama has been in the news recently with her 'Pumpkin'</li> <li>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> </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:	
<ul> <li>How tall is the Pumpkin Sculpture?</li> </ul>	
Where is it?	
What is permanently installed at Benesse Art Site Naoshima Japan?	
<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</li> </ul>	
SOURCE	



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





Can you match the themes to 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



#### Dance Year 10 Term 2 Dance – INFRA

Term Focus		
You will learn how to:		
<ul> <li>Explore practically and theoretically Inf written exam paper which requires ana out of 6 works which need to be explor</li> <li>Perform to peers using knowledge dev mental and technical skills.</li> <li>Evaluate your own work and the work of terminology.</li> </ul>	ra. Infra is a work from the Ilysis and evaluation. This is 1 ed. eloped of physical, expressive, of others using correct	A 截 键 )
<ul> <li>Develop the link between the knowledge exploration and how this applied to exact theoretical standpoint.</li> </ul>	ge developed through practical am style questions from a	Jos
Prior Learning Links	Future Learning Links	
<ul> <li>Students will have developed a foundation of physical, expressive, mental and technical skills. Students will need to continue to develop their</li> </ul>	<ul> <li>There are 6 anthology works in total. Students will look apply their skills to a second work next</li> </ul>	
understanding of these skills in preparation for their practical exam in	term in order to develop a practical and	
these skills is essential.	understanding which	
<ul> <li>The skills pupils have learned previously with regards to</li> </ul>	they can apply to the written paper of the	



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

anthology work.

performance and choreography will

be applied to the exploration of each

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

exam.

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.
Mobility	The ability to move fluently from movement to movement.

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



Expressive Skills are 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.

FFPWI35		
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: MENTAL SKILLS

Mental Skills are aspects of a performance/rehearsal process that allow a dancer to be able to get to the point where they are able to perform.

#### **TOP TIPS**

### PERFORMANCE: We use MCFLURRIES CAN CAUSE COUGHING to remember the skills for performance. MMCCC

### PROCESS: We use MASSIVE SNAILS PLAY RANDOMLY ROUND CAVES to recall mental skills for process. MSPRRC

Performance	
Movement Memory	The automatic recall of learned material without conscious thought.
Commitment	Dedication to a performance.
Concentration	The power to focus all of one's attention
Confidence	The feeling or belief that one can have in one's performance or work
Process	
Mental Rehearsal	Thinking through or visualising the dance.
Systematic Repetition	Repeating something in an ordered way.
Plan a Rehearsal	Organisation of when to go over material
Response to Feedback	Implementing changes and making improvements based on feedback given to you.
Rehearsal Discipline	Attributes ans skills required for refining a performance. Use of an effective rehearsal and time.
Capacity to Improve	Being open to make changes and take on feedback to improve a performance.

#### **KEY VOCABULARY: TECHNICAL SKILLS**

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

TOP TIP: We use DARRTS to remember technical skills.

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.

What are the key facts linking to <i>Infra</i> ?	Red	Amber	Green	
Key Facts:				
Choreographer: Wayne McGregor				
Performed by: The Royal Ballet				
Performance: First performance 13 November 2008 at the Royal Opera House, London				
Dancers: 12 – 6 male, 6 female				
<ul> <li>Dance Styles:</li> <li>Contemporary ballet</li> <li>McGregor's style is distinctive for its speed and energy and for the dynamic, angular, sinuous and hyperextended movements that push dancers to physical extremes</li> </ul>				
<b>Structure:</b> The ballet comprises solos, duets and ensembles with many arresting moments. For example, 6 couples dance duets in six squares of light and a crowd surges across the stage, unaware of one woman's private grief.				
1. What was the choreographic approach for the work?	Red	Amber	Green	

Choreographic Approach:

McGregor uses three methods to generate movement vocabulary for the piece:

- 1. SHOW a phrase to the whole or part of the cast dancers watch and either recreate the phrase exactly or create a version.
- 2. MAKE a phrase on a target dancer or dancers others watch and copy or develop.
- 3. TASK set a choreographic task for dancers to complete or pose a choreographic problem for dancers to solve. Typically the task or problem involves imagery as a stimulus for creating movement.

The movement vocabulary is then structured into longer "sentences" and "paragraphs". Finally he works musically with the structure and pieces it all together like a jigsaw.

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 is the starting point or inspiration for the dance whereas the choreographic intention is what the dance is actually about.

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:

The title *Infra* comes from the Latin word for 'below' and the work presents a portrait of life beneath the surface of the city. This abstract ballet delves beneath the surface to present a moving meditation on human interactions.

"Under the brown fog of a winter dawn. / A crowd flowed over London Bridge, so many." T.S. Eliot: The Wasteland.

#### Choreographic Intent:

*Infra* is about seeing below the surface of things. Quite literally in this case, below Julian Opie's design. You can see people, walking in the street. *Infra* is about people and the choreography has found a pedestrian language which is recognizably human. When you look at a body on stage, you have some understanding of what that body is doing. The piece is about inferences. It infers particular types of relationships and therefore the emotional content implies itself.

One of McGregor's choreographic aims is to help the audience's eye in watching a complex structure. But in *Infra*, McGregor has purposefully left open the full visual field to let the audience make their own selections.

audience's Red Amber Green
skirt e of the crowd
g nature of those living below the poverty line in a , to focus on the legs of the dancers mplement the use of white lighting nes of the dancers' bodies creates a sense of uniformity
g nature of those living below the poverty line i , to focus on the legs of the dancers mplement the use of white lighting nes of the dancers' bodies creates a sense of uniformity ighlight his masculinity and male gender

4. How does the aural setting in <i>Infra</i> contribute to the audience's understanding of the work?	Red	Amber	Green
Aural Setting:			
Aural setting is also known as music or accompaniment. - Composed by Max Richter - Performed by The Max Richter Quintet with Jonathan Haswell			
Instruments: - Strings - Piano - Electronic sounds			
Speed/Dynamics: - Changes in dynamics - Use of silence			
<ul> <li>Contribution:</li> <li>Use of everyday sounds such as a train whistle to highlight the stimulus of a city</li> <li>Use of strings instruments creates a somber and sad mood</li> <li>Classical string instruments complement the classical ballet dance style</li> <li>Provides structure to the performance</li> </ul>	of life b	elow the s	surface
5. How does the physical setting in <i>Infra</i> contribute to the audience's understanding of the work?	Red	Amber	Green
Physical Setting:			•
Performance Environment: - Proscenium arch/theatrical setting			
<ul> <li>Set Design:</li> <li>By artist Julian Opie</li> <li>An 18m LED screen is placed high on the back wall, running the width of</li> <li>Mesmerizing flow of electronic walking figures</li> </ul>	f the sta	ige	
Lighting: - See below – also a separate entity			
<ul> <li>Contribution:</li> <li>Performing below the LED screen represents life beneath the surface</li> <li>Lack of props/set enhances the focus on the dancers</li> <li>Darkness with light focusing only on dancers' bodies creates a serious mood</li> <li>Black set and white lights complement the monochrome costumes</li> <li>LED screen shows animations of everyday people walking across, suggesting a city location</li> <li>As they are underneath the screen, the people could be living in basements or homeless and living under bridges</li> </ul>			
6. How does the lighting in <i>Infra</i> contribute to the audience's understanding of the work?	Red	Amber	Green
Lighting:			
Designed by Lucy Carter			
Type of Lighting: - Spotlights			

White

Intensity:

Dim -

#### Contribution:

- Spotlights highlight specific action -
- Shadows/silhouettes created to symbolise the anonymity of city life -
- Lights towards the floor only to suggest 'below' or 'low' -
- White rectangles dictate dance space -
- Intense mood \_

7.	How does the movement content and use of dancers in <i>Infra</i> contribute to the audience's understanding of the work?	Red	Amber	Green
<u>U</u> s	se of Dancers:			

- 6 male, 6 female -
- \_ Makes 6 couples

#### **Movement Content:**

Action (extensions, turns, jumps, balances)

Dynamics (contrasting – movements range from swift and aggressive to slow and gentle)

Space (dancers move in sequences across a range of space, from confined individual space to the whole stage)

Relationships (vary between partners - some mirror, some contrast and some ignore each other) Choreographic Devices (unison, repetition, canon, contact work, solos)

#### **Contribution:**

- Suggests masses moving together -
- Highlights dancers -
- Creates contrast -
- Adds interest \_
- **Compliments music** -
- Creates structure -
- Shows relationships amongst dancers -
- Shows emotions -
- Adds to mood -
- Suggests theme \_
- \_ Highlights individual stories

HOME LEARNING TASKS	
Task Description Done	e?
How does the physical setting support the audience's understanding of Infra? (6 marks)	
How does the movement content support the audience's understanding of Infra? (6 marks)	
How does the costume support the audience's understanding of Infra? (6 marks)	
Discuss how the aural setting and lighting in the work contribute to the mood of the piece? (12 marks)	
Discuss how the costume and staging/set in Infra contribute to the stimulus of the work (12 marks)	
Discuss how the choreographic content AND staging/set contribute to the theme of 'beneath the surface in Infra (12 marks)	

# Media Year 10 Term 2 – Introduction to **Component 1B**

#### Term Focus -

#### **Prior Learning Links**

- Theory lessons completed terms 1-6 in Year 9
- **Future Learning Links**
- Year 10 term 3+4

Term 1 Year 10

#### **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

Genre- A way of categorising media texts based on shared conventions

Sub-Genre- Breaking down a genre into more specific genre types

Hybrid Genre- Two or more genres combined

Narrative- The way a story or plot is told to an audience

Linear- In time order

Non-linear- not in time order

Intertextuality- When a media text uses a reference from another

#### 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 continue with Learning Aim B.

2. What is Learning Component 1 Learning Aim B? Red Amber Green In Learning Aim B you are expected to analyse two different Media products. You can select the media products from any media platform. E.g. Publishing products, interactive products or broadcast products. Once you have selected 3 products you need to analyse the following: Genre Narrative **Character types/Narrative Structures** Representation We have covered Representation in LA A so this KO will focus the other parts of learning aim. You would need to be able to apply the knowledge from this term in your coursework.



- Red Amber Green

#### 3. What is genre?

This bit is actually quite straight forward. Genre is a way of 'categorising' media products. Therefore we can group similar media products together based on similar themes and conventions.

For example, horror.

Conventions of horror might include:

- Blood and gore
- Violent death
- Scary and intense moments
- Jump scares

If we see these things then we know we are consuming horror.

Clearly for publishing, interactive and broadcast products you may notice variations in the different elements but the idea is the same

4. What is sub-genre?

Within different genres we can actually be more specific with the types of genres.

These are known as sub-genres. Here are some examples of horror sub genres:

Can you think of some examples of different films from each sub-genre?

The conventions of the sub-genres differ but most will still have the basic horror conventions as well.



Amber

Red

Green

Green

#### 5. What is a hybrid genre?



This one is pretty easy...

When you put two or more genres together you get a hybrid genre.

Shaun of the Dead is a good example of a hybrid of Horror, Comedy and Romance.

You will see conventions of all of these in the film

6. What is Steve Neal's Genre Theory? Red Amber Media Theorist Steve Neal came up with a basic idea about how genre is used in media products.

To put it simply, it can be summarise as the following:

'Genre is examples of repetition and difference'

This means that in films for example, there needs to be enough conventions of the genre present for fans of the genre to be satisfied, but there must be new things in there too, so that audiences are not bored.



Imagine you are watching a horror film but it did not contain any of the conventions of horror- you would be disappointed!

But equally, if you watched a horror film and had all the conventions but nothing new or different then you would also be annoyed!

Therefore films (and other products) have to change and adapt to keep audiences interested but also have enough conventions to keep fans of the genres satisfied too.

Scan the QR code opposite to watch a video explaining this.

#### 7. What is narrative? What are linear and non-linear narratives?

Narrative is the way that a story unfolds in a media product. It is the way the media producer tells us that story.

The most basic thing to look out for is a <u>linear</u> narrative. This is when the story is told to us in chronological (time) order.

Sometimes however, we see things is different orders, using flashbacks or flash forwards. This then makes the narrative <u>non-linear</u>.

#### 8. What is an enigma code and action code?

An enigma code is a narrative device that media producers use to help tell stories and intrigue the audience in what is happening.

It makes the audience ask a question such as:

- Who is that?
- What are they doing?
- What are they looking at?
- What does it mean?
- Why is that there?

In the poster opposite we might ask things like:

- Which of the two men will she end up with?
- What is going on in the diary that he is looking at

These questions engage us with the product and the narrative.

When an enigma code poses a question, an action code answers it. It allows us to see something happening and moves the plot forward.

#### 9. What is intertextuality?

Have you ever watched a film, played a game etc and been reminded of another media product?

This is intertextuality.

Where one media product references another.

Sometimes it is not done deliberately but just happens naturally because the person making the media product has been inspired by other products over the course of their lifetime.

This is known as indirect intertextuality.









Amber

Green



Red

Amber Green

However sometimes it is done on purpose (direct intertextuality). There can be many reasons for this.

- To create meaning- if an audience sees/hears something like another product, then they might understand it ٠ quicker
- For homage- this is where the producer is paying tribute to the original product
- An Easter Egg- this is just an extra bonus for people who understand the reference
- Parody- A media text can make fun of another for comedy purposes (to be funny) •

#### **10.** Who are Propp's character types?

Vladamir Propp noticed that a number of different character types often came up in different narratives. Each plays a specific role in the story.

haracter Type	Definition	Example
The hero	Leads the narrative. Usually searching for something or on some form out quest and succeeds	Shrek - Shrek John McClane - Die Hard
The Villain	Struggies against hero. Shown to be morally bad = drives audience away from them, making them support hero.	Lord Farquand – Shrek Hans Gruber – Die Hard
The donor	Gives hero something special to held with the quest. Doesn't't exactly have to be physical.	Oragon - Shrek Vipet - Top.Gun
The helper	The helper supports the hero – similar to donor. Usually appears at critical moments and gives support and guidance. Physical help can highlight that hero's can have limits.	Donkey – Shrek Ron & Hermione – Harry Potter
The princess	May lake 2 forms - object/coward - deliberately done by hero. Could be seen little in the movie, or could be an important character.	Princess Fiona - Shree
The princess' father	Gives the task to hero. Key figure for hero to permuade an father is protective of daughter. Could also be in competition with the hero. Propp said that they can be hard to distinguish.	The Kings Shree
The dispatcher	The character who sends the here on a mission - may be a family member and ran also be combined with another role.	Lord Farquaed Shrew
The false hero	Appears to act heroically throughout movie, and can be mistaken for the actual hero	Prince Charming -Simel
Fodoroy's Five Stages of N	arrative?	Red

11. What are Todorov's Five Stages of Narrative?

Amber Green

Red

Amber Green

Todorov noticed that narratives often follow the same patterns. Events in stories would often play out in the same order. He noticed 5 stages and gave each stage a name:

It is acceptable	e if the stages do occur but not in the order stated in the previous slide. Each stage can vary in length in time:
Stages in Todorov's Theory	Events from Shrek
Equilibrium	Shrek lives alone in the swamp, with no friends or worries.
Disruption	Fairytale creatures appear at Shrek's swamp, after they were kicked out of their homes by Lord Farquad.
Recognition of Disruption	Shrek is annoyed by the creatures, and sets out to confront Farquad, who is seeking a wife
Attempt to Fix Disruption	Farquad sends Shrek on a mission to rescue Princess Fiona from a dragon. Shrek and Fiona fall in love, but Fiona must marry Farquad to remove a curse.
New Equilibirium	Shrek and Fiona declare their love for each other, Fiona assumed the form of an ogress, Farquad is eaten by the dragon, and the film ends with Shrek and Fiona's wedding.

HOME LEARNING TASKS	
Task Description	Done?
Find The Media Insider on YouTube and watch his video on Narrative Theory	
Find The Media Insider on YouTube and watch his video on Intertexuality Theory	
Research a genre and see how many different products you can find related to it- divide into sub-genres	
Apply Propp and Todorov to a film you know- do they fit?	
Read the sample answers to Learning Aim B on OneNote	

# Subject Year 10 Term 2 – Theme Good food

Term Focus – Food related causes of ill health. Symptoms and signs of foodinduced ill health. How to prepare and make dishes. How to plan production.

Factors affecting Menu planning. Presentation techniques

#### **Prior Learning Links**

•

- Hospitality and Catering WJEC
- KS3 learning of related subjects

Future Learning Links Hospitality and catering WJEC



KET VOCADULART	
KEY WORDS	KEY SUBJECT TERMINOLOGY
<ul> <li>bacillus cereus</li> <li>campylobacter</li> <li>clostridium perfringens</li> <li>e-coli</li> <li>listeria</li> <li>salmonella</li> <li>staphylococcus aureus</li> <li>food labelling laws</li> <li>food safety legislation</li> </ul>	<ul> <li>creativity</li> <li>garnish and decoration</li> <li>portion control</li> <li>accompaniments.</li> <li>grating*</li> <li>hydrating* juicing*</li> <li>kneading**</li> <li>laminating (pastry)***</li> <li>marinating*</li> <li>melting using bain-marie***</li> <li>mixing**</li> <li>piping***</li> <li>proving*</li> <li>puréeing**</li> <li>rub-in**</li> <li>rolling **</li> </ul>

1. What are the causes of food related ill health?

Red Amber Green

cereals (gluten) • crustaceans •dairy products •eggs • fish • fruit and vegetables • lupin • molluscs • nuts • peanuts • sesame seeds soya • wheat.

#### Food intolerance:

- gluten
- lactose
- aspartame
- MSG.

Foodborne illnesses may result from any of the following sources:

- Bacteria: These may be present in raw and undercooked meat, fish, and poultry; unpasteurized dairy products; contaminated fruits and vegetables; and contaminated drinking water.
- Viruses: Viruses are transmitted to the body through food contaminated by viral particles.
- **Parasites:** Contaminated water and soil can transmit harmful parasites to fresh produce, seafood, meat, poultry, and other foods.
- Prions: These <u>infectious</u> proteins are associated with "<u>mad cow disease</u>" and can come from eating parts of cattle, such as the brain tissue.
- Naturally occurring chemicals: Naturally occurring toxins in mushrooms, staple foods such as corn and cereal, and mould on grains can cause longterm health complications.
- Environmental pollutants: Byproducts of plastic production and waste management, as well as heavy metals such as lead and mercury found in water and soil, can contaminate foods and lead to foodborne illnesses.

#### 2. How can food related causes of ill health be avoided?

Amber Green

Red

# A food allergy is where your body reacts to certain foods. It's often mild, but can be very serious for some people.

Symptoms of a food allergy can affect any part of the body, including different parts of the body at the same time.

Common symptoms of a food allergy include:

- feeling dizzy or lightheaded
- itchy skin or a raised rash (<u>hives</u>)
- swelling of the lips, face and eyes (angioedema)
- coughing, wheezing, breathlessness, noisy breathing or a hoarse voice
- sneezing or an itchy, runny or blocked nose
- feeling sick or being sick
- tummy pain
- diarrhoea

You may get symptoms straight after eating the food you're allergic to, or days later.

#### <mark>A food intolerance</mark> is when you have difficulty digesting certain foods or ingredients in food. It's not usually serious, but eating the food you're intolerant to can make you feel unwell.

Common symptoms include:

- diarrhoea
- bloating
- farting
- tummy pain

But there are lots of other possible symptoms, including headache, feeling tired or exhausted, feeling sick, constipation, joint pain or rashes.

#### Symptoms can last for a few hours or days.



Learn about the importance of nutrition and how cooking methods can impact on nutritional value. • Learn how to plan nutritious menus as well as factors which affect menu planning. You will learn the skills and techniques needed to prepare, cook and present dishes as well as learning how to review your work effectively

5.	What factors must be considered in the planning of a menu?	Red	Amber	Green
• cc	ost			
• po	ortion control			
• ba	alanced diets/current nutritional advice			
• tii	me of day			
• cl	ients/customers.			
Lea	rners should know and understand the following factors when planning menus:			

• equipment available – the type of equipment required to produce a menu, specialist equipment, hand-held and electrical equipment.

• skills of chef – preparation, cooking and presentation, related to the needs of the dishes/menu/customer.

• time available – and type of provision e.g., service, location, size, standards – the production of dishes/menu in the time allowed. How to prepare, cook and present more than one dish at the same time.

• environmental issues – conservation of energy and water – how can the production of dishes be sustainable by using less energy and reducing consumption of water? Learners should know and understand the following terms:

How can the 3 R's be taken into consideration? Reduce, reuse, recycle.



The best ways to reduce your food waste:• Plan your meals• Buy accordingly• Compost your leftovers• Include leftover meals in your schedule• Keep track of your food• Measure your meals• Freeze what can be frozen• Get into batch cooking• Create back-up options• Get recipe boxes

7.	Which presentation techniques would make dishes more attractive to the	Red	Amber	Green
	customer?			



One of the keys to eye-catching presentations is playing with vibrant colours and bold contrasts. Feature ingredients with bright natural hues like:

**Deep Greens** — Spinach, arugula, fresh herbs, lettuce leaves, zucchini, fresh peas, and green beans.

**Rich Reds** — Fresh tomatoes, red bell peppers, English radishes, red beets, radicchio, red leaf lettuce, and sliced red meats cooked med-rare.

**Sunny Yellows** — Squash, yellow zucchini, golden beets, corn, and yellow beans.

**Earthy Browns** — Mushrooms, jacket potatoes, taro, Jerusalem artichokes, and seared or slow-cooked meats.

8. How can accompaniments enhance the presentation of dishes

Red Amber Green

Red

Amber

Green

#### What is food accompaniment?

Food accompaniment is the side dish that serves with the main dish, it complements the main food and enriches its taste and flavour. Food accompaniment can be an integral part of the dish or served separately.



HOME LEARNING TASKS	
Task Description	Done?
Make a dish using meal leftovers (Tesco real foods is a good website for recipes)	
Posh up your dinner. Use presentation techniques or accompaniments to give a lift to a regular meal	
Design packaging for an everyday food item. Show how allergies are made aware of on these labels.	
Use a recipe of your choice, list the allergens in the ingredients and state if there are possible alternatives	
Choose 3 basic cooking methods, describe them, list 4 meals made by these methods.	

# Subject Photography Year 10 Term 2 – 'Conceal and Reveal'

Term Focus – To understand the design process. To enable students to recognise the value of having a clear starting point, as an industry, to focus creative thinking. To develop their awareness of Abstract/Macro photography. To take inspiration from objects, surfaces etc. that students wouldn't have considered photographing before.

In term 1 students were introduced to the key elements of visual language used in photography; line, shape, form, tone, colour, pattern and texture. To understand the key principles of visual language used in photography; compositional rules of thirds and odds, filling the frame, viewpoints, balance, symmetry and repetition. Understand the photography elements of lighting, exposure, shutter speed, aperture, focus and depth of field. To know the genres of photography. To use a digital SLR camera using different modes such as AV and TV. Use a card reader to import photographs. Know how to create a contact sheet in photoshop. Save a photograph as a jpeq. Insert a photograph into a presentation.

### **Future Learning Links**

#### Continue sustained project 'Conceal and Reveal'

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, blending modes etc.

Scaffolding the design process for proceeding coursework projects.





#### **KEY VOCABULARY**

#### KEY WORDS

<u>Photo Manipulation</u>- involves transforming or altering a photograph using various methods and techniques to achieve desired results.

**Digital Image Manipulation-** Transforming or altering photographs digitally. There are a number of software applications available such as Photoshop, used to digitally manipulate photographs.

Macro, Extreme Close up, Close up, Viewpoint Bird's-eye View, Worm's-eye View, Eye-Level Straight/Pure Photography, Urban Surfaces Decaying Surfaces

**Photo shop tools and techniques-** *layers, quick selection tool, transform, line, shape, blending modes etc.* 

Photography is an art of observation.

**Revealing** the beauty that is around us, you want the viewer to gaze at your photographs not **glance!** 

"Taking an image, freezing a moment, reveals how rich reality truly is". -Anonymous

#### **KEY SUBJECT TERMINOLOGY**

Abstract Photography: taking a subject and forcing the viewer to look at it in a different way e.g. 'close-up'. The subject could lose all literal meaning and be reduced to only elements of shape, light, pattern, texture, tone or colour. The entirety of the subject is obscured or unseen.

<u>Macro- Photography:</u> photographing objects that are very close-up to the lens. Up-close photographs of everyday objects can easily form the basis for some interesting <u>abstract compositions</u>. <u>Texture:</u> photography utilises the visual quality of the surface of and object.

**Observation:** will define your work. It will give life and breath to the stories you capture and the beauty you create.

**Fill the frame:** simply means to **fill** your photograph with more of the subject. So instead of having negative space, or worrying about composition you're going to get closer (that's where your feet come in, WALK, move closer) and snap it a little closer up.

<u>Black and White photograph:</u> is a monochromatic image where all colour has been removed.

#### 1. Can you describe the process and development of Photographers' work?

#### I will learn:

• How to identify and analyse the use of the elements and principles of visual language in the characteristics of Bill Mangold and Aaron Siskind.



Aaron Siskind- has photographed images of peeling off images, paint. Siskind's work focuses on the details of things as flat surfaces. Most of Siskind's images are close ups. Siskind's images are also black and white I guess Siskind's uses black and white because it makes the image stand out. The image would look totally different if it was in black and white. The photograph wouldn't stand out if it was in colour.











**Bill Mangold-** Bill Mangold is a photographer who takes images which reveal the surface textures of various objects. Bill Mangold takes black and white and colour photographs. He often photographs his subjects from close-range. He is interested in capturing the light that falls on the surfaces of these objects. He often notices exciting colour combinations like orange rust on blue paintwork. Sometimes the colours are complimentary (e.g. orange and b;lue, yellow and purple, red and green). He is also interested in harmonious colours (e.g. blue and green). His black and white photographs must have been taken with a wide aperture setting because they use shallow depth of field.



Texture - Hatice portfolio (weebly.com)

# 2. Why is it important to research and mind map the theme before developing ideas?

#### I will Learn:

 How to mind-map the theme and produce a visual mood board for conceal and reveal textured photography.



Extreme Close Up: Emphasises a small area or detail of the subject, such as the eye(s) or

mouth.



**Close-Up:** Fills the screen with part of the subject, such as a person's head/face.



**Viewpoint:** the angle, direction or stance from which you choose to shoot each image.

Bird's-eye View: photographing a subject from above- a high viewpoint



Worm's-eye View: photographing from below- a low viewpoint



Eye-Level: directly looking at the subject



Straight/Pure Photography: refers to photography that attempts to depict (show) a scene or subject in sharp focus and detail

Urban Surfaces: belong to, or relating to, a town or city

Decaying surfaces: rotting as a result of bacterial, fungal, or chemical action; decomposing.









3. What is Macro photography and how can it be used to reveal interesting textures?

#### I will learn :

• How to use the camera on a 'Macro' setting while creating abstract compositions

Macro photos are images in which the magnification of the subject is life size or greater. Macro photography is often used to describe images where there is a slightly larger subject and all the traits of extreme <u>close up photography</u> are present – focusing on the detail to achieve a dramatic effect. It's all about showing something small much larger than it is in real life – an extreme close-up of something like an insect, flower or food. A full-frame insect in a five-by-seven-inch photo or a four-inch product shot of a cornflake go well above life size. Macro and close-up photos allow us to view these subjects from a new perspective. They unlock details which are hard or impossible to see otherwise – such as the antennae on a grasshopper or the contours of orange peel.



What is macro photography? 5 macro photo tips | Adobe

Ten steps for setting up your camera for great macro photography — Allan Walls Photography

- How to develop my observational skills, photograph objects that I would not have considered photographing before-**revealing** interesting textures, decayed surfaces that appear beautifully abstract.
- To become increasingly confident when using a camera and I will be considering viewpoints and angles



• How to notice and photograph 'urban and natural surfaces'



# 4. How can the study of other photographers help you find Amber Green direction in your own work?

#### I will learn:

 How to plan and annotate own ideas and photoshoots whilst considering the characteristics of Bill Mangold's and Aaron Siskind's work.



5. How can Photoshop be used to create inspired work from Aaron Siskind and Bill Mangold?

#### I will learn:

• How to use Photoshop to create inspired work from Aaron Siskind and Bill Mangold



Adobe Photoshop Tutorial: EVERY Tool in the Toolbar Explained and Demonstrated (youtube.com)



Blending Modes Explained - The Complete Guide to Photoshop Blend Modes (photoshoptrainingchannel.com)



#### Layers explained: what they do and how to use them - Life after Photoshop

TRANSFORM TOOL Examples- From left to right: Original Butterfly, Resized Butterfly, Rotated Butterfly Skewed Butterfly, Distorted Butterfly, Changed Perspective Butterfly



5 Easy Ways to Transform an Image in Photoshop (Guide) (photoshopbuzz.com)

#### 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 artwork? 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 artwork 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. *I feel that...... did not work well because.......... (is the photography in focus? Could the composition be improved? Cropped, should you have used a different viewpoints, lighting dull or not effective? More direct light)* 

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	<b>COMPARISON</b> 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	OPINION It would seem It appears Obviously Possibly It seems likely Presumably In conclusion	BALANCE & CONTRAST However Nevertheless Alternatively Yet whereas	
Task Desc	ription	n tur un che linkin e te the		Done?
Below a	are some additional t	asks you can complete with	or without a camera:	
Without a using the a With a car	a <b>camera task-</b> Look at the analysing others work in th <b>mera task-</b> take some phot	artist examples for Big Question no 1 ie writing help section. cographs of your own inspired by the	choose your favourite and describe it theme surface and texture	
Without a FLASH, L SCREEN	camera task- label the dif ENS RELEASE BUTTO I, MEMORY CARD SLO	ferent parts of the DSLR pictures belo N, ISO, MODE DIAL, POWER SV T	W: LENS, LENS CAP, VIEWFINDER, VITCH, SHUTTER BUTTON, LCD	

ġ

#### READ ME

Macro photos are images in which the magnification of the subject is life size or greater. Macro photography is often used to describe images where there is a slightly larger subject and all the traits of extreme <u>close up photography</u> are present – focusing on the detail to achieve a dramatic effect. It's all about showing something small much larger than it is in real life – an extreme close-up of something like an insect, flower or food. A full-frame insect in a five-by-seven-inch photo or a four-inch product shot of a cornflake go well above life size. Macro and close-up photos allow us to view these subjects from a new perspective. They unlock details which are hard or impossible to see otherwise – such as the antennae on a grasshopper or the contours of orange peel.

#### **COMPLETE ME**

Macroa	re images in which the	of the subject is
life size or greater	photograp	hy is often used to describe
images where there is	a slightly su	bject and all the traits of
extreme	are prese	nt – focusing on the detail to
achieve a	effect. It's all abou	ut showing something small
much	than it is in real life ·	- an extreme close-up of
something like an	, flower or f	ood. A full-frame insect in a
five-by-seven-inch pho	oto or a four-inch product s	hot of a go well
above life size. Macro	and close-up photos allow	us to view these subjects from
a new perspective. The	y unlock	which are hard or impossible
to see otherwise – sucl	h as the antennae on a	or the contours
of orange peel.		



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 the them surfaces and textures...



### 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



M       O       L       M       T       L       E       T       W       M       L       I       F       O         T       H       L       O       E       O       I       H       I       H       G       I       L       T       LENS       STUDIO         M       S       S       N       E       L       E       G       L       A       G       E       A       S       MODEL       CAMERA         A       O       O       G       P       E       G       L       A       G       E       A       S       S       MODEL       CAMERA         A       O       O       G       P       E       A       G       T       I       HARDLIGHT       LOWKEY       SOFTLIGHT       PHOTOSHOP       APERTURE       TRIPOD       APERTURE       TRIPOD       APERTURE       TRIPOD       MANUAL       FILM       MANUAL       FILM       MANUAL       FILM       MANUAL       FILM       MANUAL       FILM       MARKOOM       LIGHTING       MARKOOM       LIGHTING       MARKOOM       LIGHTING       MARKOOM       LIGHTING       MARKOOM       MARKOOM       MARKOOM <th>Ε</th> <th>Ρ</th> <th>Η</th> <th>L</th> <th>Ι</th> <th>Μ</th> <th>0</th> <th>0</th> <th>R</th> <th>Κ</th> <th>R</th> <th>Α</th> <th>D</th> <th>Ρ</th> <th>DIGITAL</th>	Ε	Ρ	Η	L	Ι	Μ	0	0	R	Κ	R	Α	D	Ρ	DIGITAL
THLOEOIHIHGILTSTUDIOMSSNELEGLAGEASAOOGPEKIPRAMTIATOGPEKIPRAMTIATOGPEKIPRAMTIATOGPEKIPRAMTIATOGDELGDOTIMATOMODELGDOTIMATOMITTCLLLGHPOARISTTCLLLGHPOARITCLLLLGHPNRRGTOMIIDGTPNRRGTOMIDOHHDIAIRSIINIDGH </td <td>Μ</td> <td>0</td> <td>L</td> <td>Μ</td> <td>Т</td> <td>L</td> <td>Ε</td> <td>Т</td> <td>W</td> <td>Μ</td> <td>L</td> <td>Ι</td> <td>F</td> <td>0</td> <td>LENS</td>	Μ	0	L	Μ	Т	L	Ε	Т	W	Μ	L	Ι	F	0	LENS
MSSNELEGLAGEASMODEL CAMERAAOOGPEKIPRAMTIATOMODELGDOTIHARDLIGHT LOWKEY SOFTLIGHTPOARISTTCLLGHHARDLIGHT LOWKEY SOFTLIGHTPOARISTTCLLLGHEHKUKSEFAIDOIIRPNRRGTOMGVIDARPNRRGTOMGVIDARPNRRGTOMGVIDGRPNRRGTNGVIDGHHHRSINTSHYDGEHHHHAISHYISHYHHNINTSHYISHYHHNI<	Т	Η	L	0	Ε	0	Ι	Н	Ι	Н	G	Ι	L	Т	STUDIO ISO
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ATOMODELGDTIMLOWKEY SOFTLIGHTPOARISTTCLLLGHEHKUKSEFAICIGHPHOTOSHOP APERTURERPNRRGTOMGVIDGTFNRRGTOMGVIDGTFRHMORSEHKDGHTFRHMORSEHKDGHULAUNASEHKDOHTFRHMIRIKDIIDULAUNAIRIKDIIDULAIIRIIIIIIIIULAIIIIIIIIIIIIUIIIIIIIIIIIIIIUIIII </td <td>Α</td> <td>0</td> <td>0</td> <td>G</td> <td>Ρ</td> <td>Ε</td> <td>Κ</td> <td>Ι</td> <td>Ρ</td> <td>R</td> <td>Α</td> <td>Μ</td> <td>Т</td> <td>Ι</td> <td>HARDLIGHT</td>	Α	0	0	G	Ρ	Ε	Κ	Ι	Ρ	R	Α	Μ	Т	Ι	HARDLIGHT
POARISTTCLLGHPHOTOSHOP APERTURE TRIPOD MANUAL FILMEHKUKSEFAIOOIIRPNRRGTOMGVIDGTFRHMORSEHKDOIIULAUNAMIRIKDOHAULAUNAMIRIKDOHAULAUNAMIRIKDOHAULAUNAMIRIKDOHAULAUNAMIRIKDIEKULAUNAIRIIIIIIIIIIIULAIRIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII <t< td=""><td>Α</td><td>Т</td><td>0</td><td>Μ</td><td>0</td><td>D</td><td>Ε</td><td>L</td><td>G</td><td>D</td><td>0</td><td>Т</td><td>Ι</td><td>Μ</td><td>SOFTLIGHT</td></t<>	Α	Т	0	Μ	0	D	Ε	L	G	D	0	Т	Ι	Μ	SOFTLIGHT
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R       P       N       R       R       G       T       O       M       G       W       I       D       G       FILM         T       F       R       H       M       O       R       S       E       H       K       D       O       H         U       L       A       U       N       A       M       I       R       T       E       U       O       H       DARKROOM	Ε	Η	Κ	U	Κ	S	Ε	F	Α	Ι	0	0	Ι	Ι	TRIPOD
TFRHMORSEHKDOHDARKROOM LIGHTINGULAUNAMIRTEUEKRODTEHHAIYTOERODTEHHAIYTOEESOLATKDINTSHYDIPTRIPODGAADS	R	Ρ	Ν	R	R	G	Т	0	Μ	G	W	Ι	D	G	FILM
U       L       A       U       N       A       M       I       R       T       E       U       E       K         R       O       D       T       E       H       H       A       I       Y       T       O       E         E       S       O       L       A       T       K       D       I       Y       T       O       E         D       I       P       T       K       D       I       N       T       S       H       Y         D       I       P       T       I       P       O       D       G       A       A       D       S	Т	F	R	Н	Μ	0	R	S	Ε	Н	Κ	D	0	Н	DARKROOM LIGHTING
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E S O L A T K D I N T S H Y D I P T R I P O D G A A D S	R	0	D	Т	Ε	Η	Н	Η	Α	Ι	Y	Т	0	Ε	
D I P T R I P O D G A A D S	Ε	S	0	L	Α	Т	Κ	D	Ι	Ν	Τ	S	Н	Υ	
	D	Ι	Ρ	Т	R	Ι	Ρ	0	D	G	Α	Α	D	S	


Without a camera task- Guess the image

With a camera task- take close-up photos of things like you see in the images *Kiwi, Car, Spaghetti, Snowflake, Sand, Butterfly, Tiger, Shell* 



Without a camera task- choose a photo from the KO and analyse it using the writing help With a camera task- <u>Macro Photography Ideas - Top 20 from easy to hard — The School of Photography - Courses,</u> <u>Tutorials & Books</u>

# Spanish Year 10 Term 2 – Healthy Living

Term Focus – This term looks at talking about what makes a healthy lifestyle. You will be able to:

- Talk about your diet -
- Talk about physical health \_

Compare past and future lifestyles \_

**Prior Learning Links** 

•

- Knowledge of food and drink (Year 8) •
- Talking about how you feel (Year 7)
- Using the future tense ٠ Using the conditional tense ٠

**Future Learning Links** 

- Giving complex opinions

Body parts (Year 8)



Green

Amber

Red

1. What do you e	at nor	mally?						Red	Amber	Green
¿Qué comes norm	nalme	nte ? (Wha	at do your r	norm	ally eat?)					
par		el desayuno								
	(for I	oreaktast,)				pan	queso	F	Dasta	
	para	la comida	,			(bread)	(cheese)	(	pasta)	
	(for l	unch,)		con	no	pollo	fruta	ł	nelado	
	para	la merien	da,	(I e	at)	(chicken)	(fruit)	(	ice cream)	
_	(for a	a snack,)		ton	no	pescado	verduras	C	lulces / car	amelos
Normalmente, (Normally.)	para	la cena.		(I h	ave)	(fish)	(vegetables)	(	sweets)	
(,,,,,	(for o	dinner,)				arroz	huevos	ι	ın bocadille	D
	cuan	i <b>ando tengo hambre,</b> /hen i'm hungry,)				(rice)	(eggs)	(	a sandwich	)
	(whe									
						café	leche			
	cuan	n <b>do tengo sed,</b> en i'm thirsty,)		<b>bebo</b> (I drink)		(coffee)	(milk)		agua	
	(whe					vino tinto	té		(water)	
					1	(red wine)	(tea)			
Es un plato típico			México		Perú	v está(n) hechos con				
(It's a typical dish)			(Mexico)		(Peru)	(and it /	(and it / they are made with)			
		de	Argentina	3	Chile	(4.1.4.10)				
Es un plato popul	Es un plato popular		(Argentin	a)	(Chile)	v consist	te(n) en			
(lt's a popular dish,)			España		Cuba	(and it /	they consist of)			
			(Spain)		(Cuba)					
porque es		S				rico				
Me gustaría prob	ar	(because	it)		porque sue	na	(tasty)	dulo	e	
(I would like to try	/)	porque p	arece		(because it :	sounds)	delicioso	(swe	eet)	
	(because	it seems)				(delicious)	•	•		

### 2. Do you lead a healthy lifestyle?

¿Llevas una vida sana ? (Do you lead a healthy lifestyle?)						
Por la mañana	Todos los días	hago los deberes	o los deberes domo el desayuno		llevo una botella de agua	
(In the morning)	(Everyday)	(I do my homework)	(1	have breakfast)	(I carr	y a bottle of water)
Por la tarde	Algunos días	me levanto	νι	uelvo a casa	hago eiercicio	
(In the afternoon)	(Some days)	(I get up)	(1	return home)	(I do exercise)	
Por la noche	Primero	me visto	me acuesto		me relajo	
(In the evening)	(Firstly)	(I get dressed)	(1	go to bed)	(I relax)	
Durante el día	Luego	termino las clases	dı	uermo bien	entre	no
(During the day)	(then)	(I finish class)	(1	sleep well)	(I trair	ר)
El fin de semana	Después			comer verduras		hacer meditación
(At the weekend)	(Afterwards)	Suelo		(eat vegetables)		(meditate)
Los domingos	Finalmente	(Lusually)		beber mucha agu	ıa	acostarme temprano
(On Sundays)	(Finally)	-		(drink lots of wate	r)	(go to bed early)

3. What's up	p?				Red	Amber	Green	
¿Qué te pasa	¿Qué te pasa ? (What's up with you?)							
Ayer	me rompí	El brazo	La mano					
(Yesterday)	(I broke my)	(arm)	(hand)	La rodilla	Los oi	ioc		
La semana	me corté							
pasada	(l cut)	El estómago	La cabeza	(knee)	(eyes)	)		
(Last week)	me quemé	(stomach)	(head)	La niorna	Los de	ados		
	(I burned)			(foot)		euos		
Me duele( <mark>n</mark> )		El pie	La garganta	(1001)	(toes)			
(My hurts)		(foot)	(throat)	Los oídos	Los di	ientes		
Le duele( <mark>n</mark> )		La boca	La nariz	(ears)	(teeth	ו)		
(His / Her hu	ırts)	(mouth)	(nose)					
Debes	quedarte en	la cama	comprar medicinas en la f	farmacia				
(You must) (stay in bed)			(by medicine at the pharm	narcy)	relajarte			
Necesitas descansar			evitar el sol		(relax)			
(You need) (rest)			(avoid the sun)		ir al médico / hospital			
Tienes que dormir			recuperarte	(go to the doctor's / hospital)				
(You have to)	(sleep)		(recover)					

#### \*Plural body parts must use the plural form with an 'n' $\rightarrow$ me duelen las piernas

4. What was your life like wh	en you were younger?		Red	Amber	Green	
¿Cómo era tu estilo de vida cu	i <mark>ando era más joven?</mark> (What w	vas your life like v	vhen you were younger?)			
	me levantaba temprano					
Antes,	(I used to wake up early)		bebía demasiado café			
(Before),	me acostaba tarde		(I used to drink too much c	offee)		
Cuando era más pequeño,	(I used to go to bed late)		me gustaba comer dulces			
(When I was smaller),	no era muy activo		(I used to like eating sweet	s)		
Cuando era más joven,	(I wasn't very active)		no hacía suficiente ejercic	io		
(When I was younger),	no tenía mucha energía		(I didn't do enough exercise	e)		
Cuando tenía <u>diez</u> años,	(I didn't have much energy)		siempre estaba cansado y	enfermo		
(When I was <u>10</u> years old),	no tenía una vida sana		(I was always tired and sick)			
	(I didn't have a healthy life)					
Sin embargo, ahora (However, now), Por el contrario, ahora (On the other hand now),	<b>Me siento mucho mejor</b> (I feel much better) <b>Soy bastante activo</b> (I am quite active)	<b>y no</b> (and I don't) <b>y ya no</b> (and I no longer)	como comida rápida (eat fast food) hago nada para mantern (do nothing to stay in sho bebo bebidas con azúcar (drink sugary drinks) me levanto tarde como a (get up late like before)	aerme en fe ape) antes	orma	

#### 5. What is the imperfect tense?

Red Amber Green

The Imperfect tense is a past tense that is used for two main reasons:

1. To **describe** things in the past  $\rightarrow$  **There were** lots of people in the restaurant.

2. To talk about things that **regularly happened** in the past  $\rightarrow$  When I was little, **I used to play** everyday.

6. How do I form the imperfect tense?		Red	Amber Green	
We use the imperfect tense to talk about what you used to do in the past. To form the imperfect, you follow these steps:	1	-AR verbs aba	-ER / -IR verbs ía	
1. Find the infinitive verb	You (singular)	abas	ías	
2. Remove the -AR, -ER or -IR	He / She / It	aba	ía	
<ol> <li>Add the ending from the table that matches the person you are talking about</li> </ol>	We	ábamos	íamos	
	You (plural)	abais	íais	
e.g. I used to play → jugar – ar + aba = jugaba	They	aban	ían	

# 7. How are you going to change your lifestyle?

Red Amber Green

Red Amber Green

¿Cómo cambiarás tu estilo de vida? (How are you going to change your lifestyle?)					
Si dejo de comer / beber / fumar,	me sentiré más feliz				
(If I stop eating / drinking / smoking),	(I will feel happier)	dormiré meior			
Si duermo al menos ocho horas,		(I will sleen hetter)			
(If I sleep for at least 8 hours),	mi salud física mejorará	(I will sleep better)			
Si practico más deporte,	(my physical health will improve)	me levantaré con más energía			
(If I practise more sport),		(I will wake up with more energy)			
Si tengo una vida más activa,	mi salud mental mejorará	(I will wake up with more energy)			
(If I have a more active life),	(my mental health will improve)				
	dormiré más tiempo	iré al gimnasio			
Para cambiar esta mala costumbre,	(I will sleep longer)	(I will go to the gym)			
(To change this bad habit),	beberé más agua	evitaré beber alcohol y fumar			
Para mejorar mi dieta / salud,	(I will drink more water)	(I will avoid drinking alcohol and smoking)			
(To improve my diet / health),	no usaré el móvil	empezaré a practicar deporte			
	(I will not use my mobile)	(I will start practising sport)			

#### 8. What is a subordinate clause?

To put it simply, a subordinate clause is a part of a sentence. A subordinate clause doesn't make sense on its own in a sentence, but adds more detail to the sentence itself.

For example:

If I practise more sport, my physical health will improve.  $\rightarrow$  'If I practise more sport' doesn't make sense on it's own, and needs the second half of the sentence to make sense.

9. How do I form the simple future tense?		Red	Amber	Green
We use the simple future tense to talk about what you <b>will</b> do or	1	é		
what <b>will</b> happen. To form the simple future, you follow these	You (singular)		ás	
steps:				
4. Find the infinitive verb	He / She / It		á	
5. Add the ending from the table that matches the person	We		emos	
you are talking about	You (plural)		éis	
e.g. I will play → jugar + é = jugaré	They		án	

#### 10. What is the role play task?

In your speaking exam you, you will have a role play task that is supposed to mimic a real-life scenario that you might find yourselves in when in a Spanish speaking country. You will be given some prompts to prepare before the speaking section actually begins. On the right is an example:

The role play task is worth 10 marks. You will get 2 marks for each bullet point that you are able to answer correctly.

# You are at a doctor's surgery in Spain. You are the patient, and your teacher is the doctor. Task:

- Give your name and where you are from
- Say what is hurting you
- Say what your plans are for tomorrow
- Ask a question about medicine
- Ask a question about the cost

# You will have to do a role play task for this term's mid-term assessment!

11. 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)				
12. What is an intensifier?	Red	Amber	Green	
Definition: An intensifier is used <u>before</u> an adjective to add detail.				
Key intensifiers: muy (very), bastante (quite), un poco (a little), demasiado (too)				
HOME LEARNING TASKS				
Task Description			Done?	
Can you write a short paragraph talking about your diet?				
Can you write a short paragraph to say whether you lead a healthy life or not?				
Can you write a write short sentences saying what is wrong with you?				
Can you ask questions to a doctor?				
Can you write a paragraph about what you will do in the future to improve your life?				
Can you use the sentence builders above to write sentences answering the questions? Can you improve these by				
adding conjunctions and intensifiers?				

# French Year 10 Term 2 – Healthy Living

Term Focus – This term looks at talking about what makes a healthy lifestyle. You will be able to:

- Talk about your diet \_
- Talk mental health and what you do to look after it -

Qu'est-ce que tu manges normalement ? (What do your normally eat?)

pour le petit-

- Talk about physical health \_
- Compare past and future lifestyles \_

#### **Prior Learning Links**

Normalement,

(Normally,)

D'habitude,

(Usually,)

- Knowledge of food and drink (Year 8)
- Talking about how you feel (Year 7) •
- Body parts (Year 8) •
- Future and imperfect tense (Year 9) •

## 1. What do you normally eat?

#### **Future Learning Links**

- Using the future tense •
- Using the conditional tense •

du pain

Giving complex opinions •

<b>déjeuner</b> (for breakfast,)		(bread)	(cheese)	(olives)
<b>à midi,</b> (at midday,)	<b>je mange</b> (I eat)	<b>du poulet</b> (chicken)	<b>des fruits</b> (fruit)	<b>des pâtes</b> (pasta)
<b>`</b>	je prends	du poisson	des légumes	de la glace
apres les cours, (after school,)	(I have)	(fish)	(vegetables)	(ice cream)
		du boeuf	des oeufs	un sandwich
<b>quand j'ai faim,</b> (when i'm hungry,)		(beef)	(eggs)	(a sandwich)
<b>quand j'ai soif,</b> (when i'm thirsty,)	<b>je bois</b> (I drink)	du café (coffee) du vin rouge	<b>du lait</b> (milk) <b>du thé</b>	du lait de coco (coconut milk) de l'eau

(red wine)

## 2. What are partitive articles?

The partitive article refers to an unspecified quantity of food, liquid, or some other uncountable noun. English has no equivalent article – the partitive is usually translated by the adjectives "some" or "any," or may be left out entirely.

Masculine	Du
Feminine	De la
Plural	Des
Before a noun beginning with a vowel	De l'

#### 3. How do you feel today?

Comment tu te sens aujourd'hui ? (How do you feel today?)						
Comment ça va aujourd'hui?	<b>Ça va</b> (it's going)	bien (well)		<b>très bien</b> (very well)		
(How are you today?)	<b>Ça ne va pas bien</b> (it's not going well)					
Quel est le problème? (What is the problem?)	Je me sens	<b>calme</b> (calm)	<b>fatigué</b> (tired)	<b>inquiet</b> (worried)	stressé	
<b>Qu'est-ce qui ne va pas?</b> (What's wrong?)	(I feel)	<b>en colère</b> (angry)	<b>heureux</b> (happy)	<b>triste</b> (sad)	(stressed)	



Amber

des olives

Red

du fromage

(tea)

Green

Red Amber Green

(water)

Amber Green

Red

4. What should	l you do?		Red Amber Green
Qu'est-ce qu'il	devrait faire ? (What should you d	lo?)	
On develt	être calme / patient	aller au lit	
(You should)	(be calm / patient)	(go to bed)	chercher en ligne
(Tou should)	écouter un peu de musique	aller faire une promenade	(search online)
Il faut	(listen to some music)	(go for a walk)	éviter de passer trop de temps
(You must)	faire de la cuisine	expliquer le problème	devant des écrans
	(do some cooking)	(explain the problem)	(avoid spending too much time
<b>Tu dois</b> (You must)	parler avec quelqu'un	essayer d'en parler avec	in front of screens)
	(speak to somebody)	(try to talk about it with)	

#### 5. Are you ok?

Vous allez bien ? (Are you ok?)							
		le bras	le	nez		la jambe	
J'ai eu un accident	où je me suis cassé	(arm)	(n	ose)		(leg)	
(I had an accident)	(where I broke my)	le dos	le	pied		la main	
		(back)	(fo	pot)		(hand)	
	au coeur	au pied	à	la gorge			
J'ai vraiment mal (I have a really sore)	(heart)	(foot)		(throat)		à l'oreille	
	au dos	au ventre à la j		la jambe		(ear)	
J'ai très mal	(back)	(stomach)		(leg)		à la tête	
	au nez	à la bouche	àl	la main		(head)	
	(nose)	(mouth)	(h	and)			
		demain après-midi	lundi	i	m	ercredi	
Vous voulez un rendez	-vous pour quand?	(tomorrow afternoon)	(Mor	(Monday)		Vednesday)	
(When would you like a	an appointment)	aujourd'hui	mardi		je	udi	
		(today)	(Tues	sday)	Τ)	hursday)	
Le rendez-vous est à quelle heure ?		C'est à		deux heures		trois heures	
(What time is the appo	intment?)	(It's at)		(two o'clock)		(three o'clock)	
Quelle est l'adresse, s'	il vous plait ?	C'est dans la rue (du Ma	arché)	au numéro		dix	
(What is the address pl	ease)	(It's in the (Market) stree	et)	(at number)		(10)	

#### 6. What is the role play task?

In your speaking exam you, you will have a role play task that is supposed to mimic a real-life scenario that you might find yourselves in when in a French speaking country. You will be given some prompts to prepare before the speaking section actually begins. On the right is an example:

The role play task is worth 10 marks. You will get 2 marks for each bullet point that you are able to answer correctly.

You are at a doctor's surgery in France. You are the patient, and your teacher is the doctor. Task:

- Say what the problem is
- Say how painful it is
- Say when you are returning to England
- Ask a question about what you need to do
- Ask a question about if you need to see a doctor in England

You will have to do a role play task for this term's mid-term assessment!

Red Amber Green

Red Amber Green

7.	What are yo	u going to	o do to i	improve	your life?
----	-------------	------------	-----------	---------	------------

Red Amber Green

Red Amber Green

Qu'est-ce que tu feras pour améliorer ta vie ? (What will you do to improve your life?)							
À l'avenir, pour améliorer ma vie (In the future, to improve my life)	j'aiderai les autres (I will help others) j'aurai plus de patience (I will have more patience)	j'irai plus souvent au centre sportif (I will go to the gym more often)	<b>je penserai moins à moi</b> (I will think less about myself) <b>je serai plus actif</b> (I will be more active)				
Afin d'être plus en forme (in order to be in better shape)	j'aurai une meilleure attitude (I will have a better attitude) j'écouterai le prof (I will listen to the teacher)	<b>je jouerai au tennis</b> (I will play tennis) <b>je mangerai mieux</b> (I will eat better)	Je serai plus gentii (I will be kinder) je travaillerai plus sérieusement au collège (I will work harder at school)				
<b>Pour réduire le stress,</b> (In order to reduce stress)	je ferai plus d'exercice (I will do more exercise) je ferai plus d'efforts en (I will make more effort in)	<b>je passerai moins de temps sur les réseaux sociaux</b> (I will spend less time on social networks)	je ne ferai pas mes devoirs à la dernière minute (I will not do my homework at the last minute)				

8. What was your life like v	when you were younge	r?	Red	Amber	Green
Ta vie était comment, quan	d tu étais plus jeune ?	(What was your life like, when	you were younger?)		
	<b>j'habitais</b> (I used to live)	<b>dans la banlieue</b> (in the suburbs)	<b>dans une grande ville</b> (in a big city)		
Quand j'étais plus jeune, (When I was younger,) Quand j'étais petit, (When I was little,)	<b>j'étais</b> (I used to be)	<b>membre d'un gang</b> (a member of a gang)	victime de harcèlement au collège (a victim of bullying at school)		
	<b>j'avais</b> (I used to have)	beaucoup de problèmes (lots of problems)			

### 9. What is the imperfect tense?

The Imperfect tense is a past tense that is used for two main reasons:

- 1. To **describe** things in the past  $\rightarrow$  **There were** lots of people in the restaurant.
- 2. To talk about things that **regularly happened** in the past  $\rightarrow$  When I was little, I used to play everyday.

10. How do I form the simple future tense?	Red	Amber	Green
To form the simple future tonce in French you will need to follow the following stone:	Je		ai
1. Find the infinitive of your verb	Tu		as
2. Decide who is doing the action	II / elle /	/ on	a
3. Add the ending that matches the person to your infinitive			ez
e.g. i will play = Je + Jouer + al = Je Joueral	lls / elle	es	ont

11. What are the key verbs in the simple future tense?RedA						
French	English	French	English			
J'acheterai	I will buy	Je jouerai	I will play			
J'aiderai	I will help	Je passerai	I will spend			

J'aurai	I will have	Je penserai	I will think
J'écouterai	I will listen	Je serai	I will be
Je ferai	I will do	Je travaillerai	I will work
J'irai	I will go	Je mangerai	I will eat

# 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), vraiment (really), assez (quite), un peu (a little), trop (too)

HOME LEARNING TASKS	
Task Description	Done?
Can you write a short paragraph talking about your diet?	
Can you write a short paragraph to talk about how you feel?	
Can you write a write short sentences saying what is wrong with you?	
Can you ask questions to a doctor?	
Can you write a paragraph about what you will do in the future to improve your life?	
Can you use the sentence builders above to write sentences answering the questions? Can you improve these by	
adding conjunctions and intensifiers?	
Practise the vocabulary in your knowledge organiser by using the look, cover, write, check method.	
Go to www.sentencebuilders.com and practise this terms vocabulary.	

# 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.



(EY VOCABULARY						
KEY WORDS & TERMINOLOGY						
<b>opic Area 1</b> : Components of fitness applied in sport	Topic Area 2: Principles of training in sport					
<ul> <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 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

Ť.

# **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	ponent to score a try.
Component of fitness	Definition

-

Sillon	: Diles (gymnastics)
enge: To execute the double layout floor e	xercise to a high standard.
Components of fitness	Definition

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 training	? 6	ed Amber	Green
Principles of Training			
Fill in the blanks for the following defin	itions of the FITT principles:		
• Frauecv-thenumbe	er of times you train per week (how off	ren)	
		(c) ()	
• III_e_s_ty - now hard yo	u train during each training session (no	w nard)	
<ul> <li>_im_ – the length of each</li> </ul>	training session (how long)		
<ul> <li>T_p_ – the method of train</li> </ul>	ning used during each training session	(which training method)	
6 What are SMART goals?		Amber	Green
SMART Goals		Amber	Green
Match up the SMART principles below y	with their definitions		
Specific	It should be possible to reach your	goal	
Specific	all and the second second second second		
	Goals should not be vague but should describe what you		
Measurable	want to achieve in detail.		
Achievable	Goals should be tracked in order to	see your progress as you	
	complete them.		
Destinate	the based of the effect on the second second	should be askined by	
Realistic	it should be clear when your goals	snould be achieved by.	
	A goal should be something that is	nossible given your	
Time bound	individual circumstances, e.g. the a	mount of time you can	
Time-bound	dedicate to training, or the facilitie	s and equipment available	
5	to you.	And the second se	

7.	What are methods of training and their advantages/disadvantages?	Red	Amber	Green
Me	ethods 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 you conside programme?	r when designing a fitness trainin	g	Red	Amber	Green
De	signing a Fitness Programme					
Cir	cle the 5 most important factors to	o consider when designing a fitnes	s tra	ining pro	gramme:	
	Method used	Current fitness levels	Saf	ety/risk a	ssessments	
	Duration	Previous injuries	Sui	table acti	vities	
	Name	Session aims	Арр	olication	of SPOR	
	Age	Athlete goals	Pro	gression		
	Aims	Equipment/ facilities needed	Obj	ectives		
9.	How do you apply the principles	of training to a fitness programm	e?	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.	

10. How do you plan a fitness programme?	Red	Amber	Green
11. How do you record your results from a fitness training programme?			

### Planning a Fitness Programme

Think about the information that goes into a training programme. Fill out the worksheet below to begin the planning process.

Suitable warm-up and cool-down Suitable main activities [Think about the different components of warm-ups and (Can you think of different activity examples suitable to a range cool-downs and how exercises may vary for of different subjects?) different activities.) Coaching points (What instructions might coaches provide to improve the performance of different skills and techniques?) Duration of plan (What factors would influence the Duration of sessions (What factors might influence the optimum duration of the programme?) duration of a training session?) Monitoring progression and adaptability Equipment and facilities (How is progress monitored and how might a training (What different equipment and facilities are needed for session or mid-term testing result in adaptation of different sports and activities?) the programme?)

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

## **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

HOME	LEARNING TASKS		
Task De	escription		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)	Complete Checkpoint 5 on the EverLearner at a minimum grade of 70% "Organising and planning a fitness training programme"	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 Linksny andSome links to questions in exam
  - paper for R180.
    BTEC Level 3 Unit 1 Anatomy and Physiology



KEY VOCABULARY	
KEY WORDS 8	a 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):
Key Terms:	
<ul> <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 nose to the lungs.</li> <li>Lungs - large spongy organs in chest; used for gas exchange.</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 neck.</li> <li>Vasoconstriction – reduction in the diameter of a blood vessel to reduce blood flow through that vessel.</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 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.

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.

		<ul> <li>Heart disease - when the heart's blood supply is blocked or interrupted by a build-up of fatty substances in the coronary arteries that supply the heart with blood.</li> <li>Heart attack – medical emergency in which the supply of blood to the heart is suddenly blocked.</li> </ul>
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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 i	measured?	
What is Stroke Volum	e?		
What is Cardiac Outpu	ıt?		
• What is Breathing Rate	e and how i	s it measur	ed?
• What is Tidal Volume?	) 		
• What is Gaseous Excha	ange?	• • • • • • • • • • • • • • •	•••••
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2: How is technology used to inform	n us Red	Amber	Green
about the cardio-respiratory system	1?		
Key terms Technology Putting scientific knowledge into practical use to solve problems or invent useful tools.	<ul> <li>How coul Midfielde performa</li> </ul>	d a coach use data er's Heat Map to ass nce of his/her Foot	from a Central sess the ball player?
Wearable technology Technology worn on the body during exercise to provide data. Laboratory-based technology The use	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
of technology inside a laboratory to provide data. <b>Field-based technology</b>			
Technology that can be used to provide data outside of a laboratory in the setting where sports take place, for example a football pitch.			
3: What are the components and ro	le Red	Amber	Green
Cranium Ribs Ribs Clar Sca Hur Ver Rad Uln Fen	vicle pula merus tebrae lius a 2 = Bicep 3 = Abdominals 4 = Quadriceps 5 = Pectorals hur 6 = Latissimus D	2 3 Orsi	
Patella Q	7 = Triceps 8 = Gluteal	4	9
Fibula — Tibi	10 = Gastrocnen	nius	10

			_
4: How is technology used to inform us about the musculo-skeletal system?	Red	Amber	Green
How could a High Jun the data gathered fro Capture to assess the his/her athlete?	np coach use om Slow Mot e performanc	e cion ce of	
5: What are the short-term effects of	Red	Amber	Green
exercise on the cardio-respiratory system?			
What would you no Output during exerce	tice occurrir cise?	ng to yo	ur Heart Rate and Cardiac
		•••••	
••••••		•••••	
<ul> <li>What would you no exercise?</li> </ul>	tice occurrir	ng to yo	ur Breathing Rate during
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#### Think:

~	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)

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

Red

Amber

- 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 D	escription	Done?
1)	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"	
2)	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"	
3)	Complete Checkpoint 3 on The EverLearner at a minimum grade of 70%: "Effects of Exercise"	