

Knowledge Organiser Year 10 Term 2

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English (Term 2)	
A Christmas Carol by C	Charles Dickens
BIG QUESTIONS	Context
13. What is the significance of Tiny Tim?	Class Divides – Despite industrial changes altering the social landscape, there were still relatively distinct social classes in operation: the nobility, upper class, the middle class, and the working class. Life was terrible for the poorest; lack of money resulted in a negligible food
14. Why does the Ghost of Christmas Present take Scrooge to the party?	supply. For some working families, money was so tight that they required their children to work in order to survive. <u>Health and Medicine</u> –Healthcare was more of a luxury at the time, and medicine was nowhere near as advanced today. Many diseases were rife, and childbirth and poverty were very real dangers to people living in the era. As a result, a middle class person may expect to live to 45 at the time, whereas a working class person would have been lucky to have lived half that time. In A Christmas Carol, the restrictions in
15. How do Ignorance and Want present the problems in society?	healthcare are evident in Tiny Tim's continued suffering. <u>Christmas</u> – We now associate Christmas as being a time of seasonal goodwill, love and friendship. However, before the Victorian era, when
16. How is the Ghost of Christmas Yet to Come presented to us?	writers such as Dickens spread these messages through their novels, there was no Santa Claus, Christmas cards, and no holidays from work! Christmas Day was a far more low-key affair. Writers such as Dickens encouraged middle-class families to share their wealth and act selflessly.
17. How has the tone of the novella shifted with the Ghost of Christmas Yet to Come?	<u>Plot</u> <u>Stave 3</u> - The bell strikes one, and Scrooge is awake again. At quarter past one, he finds the Ghost of Christmas Present waiting for him. He is a majestic jolly giant, and sits on a mountain of food. The spirit takes Scrooge to the bustling streets on Christmas morning, where passers-by joyfully greet each other. The spirit then takes Scrooge to the home of Bob Cratchit,
18. How does Dickens build tension through the events the Ghost of Christmas Yet to Come shows Scrooge?	where the family savour the Christmas that they can afford. Their visibly-ill son, Tiny Tim, is cheery despite his ailments. Scrooge begs to know whether he will survive. They also visit Fred's Christmas party, which Scrooge enjoys. Eventually, Scrooge is brought to a vast expanse, where two sickly children, 'Want' and 'Ignorance' emerge. When Scrooge asks if there is anything that can be done, the spirit mocks his prior selfishness.
19. How does Dickens change the Cratchits to alter Scrooge?	<u>Stave 4</u> - Scrooge is approached by a hooded phantom. The spirit is silent, and Scrooge is terrified by him. Scrooge pleads with him to provide his next lesson. The ghost takes him to the stock exchange, where men discuss the accounts of a rich man, a dingy pawn shop, where the rich man's stolen goods are being sold, and the Cratchit household, where the family
20. How is the end of Stave Four effective?	struggles with the death of Tiny Tim. Scrooge is then taken to a freshly dug grave in a graveyard. The gravestone reveals that it is his own grave. Appalled, Scrooge begs with the spirit to give him another chance to show that he has learnt his lesson.
21. Is Scrooge's change admirable or self-serving?	The phantom begins to tremble and disappears, and once again Scrooge finds himself in the relative safety of his own bed. <u>Stave 5</u> - Scrooge realises that he has been returned to Christmas morning, and is utterly overjoyed. He pays the first boy that
22. What becomes of Scrooge?	he meets a huge sum to deliver a great big turkey to Bob Cratchit's household. He bumps into the gentlemen collecting for charity, apologises for his prior behaviour, and promises to donate lots of money to the poor. He attends Fred's party and is
23. How does Dickens present the change in Scrooge's character?	so happy and kind that the other guests can barely believe his behaviour. The next morning, he pretends to scold Bob Cratchit for arriving late, before promising to give him a large raise and to care for his family. As time passes by, he stays true to his word – he belos the Cratchits and becomes like a second father to Tiny Tim, who does not die. Scrooge brings Christmas
24. How does Dickens present the importance of family?	cheer to every day, and shrugs off the doubts that others have about his changed behaviour. The narrator concludes by suggesting that Scrooge's changed attitude and behaviour should be shared by everyone.

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Key Quotations

Stave 3: 'there sat a jolly Giant, glorious to see, who bore a glowing torch, in shape not unlike Plenty's horn, and held it up, high up, to shed its light on Scrooge' 'free as its genial face, its sparkling eye, its open hand, its cheery voice, its unconstrained demeanour, and its joyful air' "if you have aught to teach me, let me profit by it" 'his threadbare clothes darned up and brushed, to look seasonable' 'Alas for Tiny Tim, he bore a little crutch, and had his limbs supported by an iron frame' "he hoped the people saw him in the church, because he was a cripple, and it might be pleasant to them to remember upon Christmas Day, who made lame beggars walk, and blind men see" 'Such a bustle ensued that you might have thought a goose the rarest of all birds; a feathered phenomenon' 'Mrs Cratchit entered -- flushed, but smiling proudly -- with the pudding, like a speckled cannon-ball' "I see a vacant seat [...] in the poor chimney-corner, and a crutch without an owner, carefully preserved. If these shadows remain unaltered by the Future, the child will die" "If he be like to die, he had better do it, and decrease the surplus population" 'the ghost grew older, clearly older' 'From the foldings of its robe, it brought two children; wretched, abject, frightful, hideous, miserable' "This boy is Ignorance. This girl is Want."

<u>Stave 4:</u> 'The Phantom slowly, gravely, silently approached. When it came, Scrooge bent down upon his knee; for in the very air through which this Spirit moved it seemed to scatter gloom and mystery' 'Scrooge feared the silent shape so much that his legs trembled beneath him' "Spirit...I see, I see. The case of this unhappy man might be my own. My life tends that way, now" 'Bob held his withered little hand in his, as if he loved the child, and wished to keep him by his side, and dreaded that he might be taken from him' 'Still the Ghost pointed downward to the grave by which it stood' "Spirit!" he cried, tight clutching at its robe, "hear me. I am not the man I was" "I will honour Christmas in my heart, and try to keep it all the year. I will live in the Past, the Present, and the Future"

<u>Stave 5</u>: "I am as giddy as a schoolboy" "Not a farthing less. A great many back payments are included in it" "Let him in! It is a mercy he didn't shake his arm off." 'Scrooge was better than his word. He did it all, and infinitely more; and to Tiny Tim, who did not die, he was a second father'

<u>Key Vocabulary (concepts/themes)</u>	Homework Links
Transformation – Physical transformations are evident throughout A Christmas Carol, as objects, settings, and	Your homework this term will be
characters appear and vanish under the manipulation of the ghosts. Spiritual transformations take place too, as the	creative writing based loosely
reader witnesses a lonely boy's transformation into an embittered old man, and the efforts made to transform his	creative writing, based loosely
character to reconnect with those around him.	around the novella.
Time – Time is stretched by the ghosts – the events that Scrooge experiences appear to have taken days, and yet all	
takes place in the space of one night. A race against time is also taking place, as the spirits work to prevent Scrooge	Check out BBC Bitesize for writing
(and in turn, Tiny Tim) from experiencing their fateful demise. The reader is taught to value the time that we have,	skills to halo use with
and use it to spread happiness to others.	skills to help you with
Five Staves – The story is set out in five Staves – a structure that mimics musical organization – the opening sets the	this: <u>https://www.bbc.co.uk/bitesiz</u>
scene, the middle is the turning point, and the last stave concludes.	e/topics/zpvg6fr
The Number 3 – Scrooge is visited by 3 ghosts of Christmas: Past, Present, and Yet to Come. This is a common	<u></u>
feature in magical fairy stories: e.g. 3 wishes, 3 choices etc. This adds to the mystical feel of the novella	

Subject: Mathematics Topic: Recall Knowledge

Areas		Volumes		Pythagoras		Gradient of a Line
Rectangle = $l \times w$	/	$Cuboid = l \times w \times h$	h	Pythagoras' Theorem For a right-angled triangle, $a^2 + b^2 = c^2$	c b	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Parallelogram = b × h	h a	, Prism = area of cross section × length	sector length	Trigonometric ratios (<i>new to F</i>) sin $x^{\circ} = \frac{\text{opp}}{\text{hyp}}$, cos $x^{\circ} = \frac{\text{adj}}{\text{hyp}}$, tan $x^{\circ} = \frac{1}{2}$	opp adj	$m = \frac{\text{height}}{\text{base}}$
Triangle = $\frac{1}{2}b \times h$		Cylinder = $\pi r^2 h$	h	Compound measures Speed		Midpoint of two points between (x_1, y_1) and (x_2, y_2) $(\frac{x_1 + x_2}{2}, \frac{x_1 + y_2}{2})$
Trapezium = $\frac{1}{2}(a + b)h$	\xrightarrow{h}_{b}	Volume of pyramid = $\frac{1}{3} \times \text{area of base} \times h$	n n n n n n n n n n n n n n n n n n n	speed = distance time Density		ompound Growth & Decay
Literacy In Maths	Commar	d Words		volume		starting $(a + r)^n$
Evaluate	Work out and write your answer			Pressure	F	$amount \times (1 \pm \frac{7}{100})$
Work out	Working out is required			pressure = $\frac{1000}{area}$	P A whe	ere r is the rate of change.
Calculate	Working out is required. A calcu	ator may be needed.				\pm means + for growth and – for decay
Solve	Work out the values		Circles		Area of a Sa	Set Notation
Prove	All working must be shown in sto	ps to link reasons and values.	Circumforonoo -	Cip	Area or a Se	A U B
Expand	Multiply out of the brackets		$\pi \times \text{diameter, } C = \pi$	d Canada	$A = \frac{6}{3600}$	$\frac{1}{2} \times \pi r^2$
Draw	Draw accurately with a pencil an	d equipment.	Circumference =	Centre	ance	Intersection: in both A and
Explain	Use words to give reasons		$2 \times \pi \times \text{radius}, C = 1$	2mr Diameter Redus	Length of an	Arc
Factorise	The reverse process of expandin	g brackets. Remove the HCF.	Area of a circle =	$\langle \gamma \rangle$	$A = -\frac{\theta}{\theta}$	P(A or B) = P(A) + P(B)
Estimate	Work out an approximate answe	r using rounded values.	πx radius squared,	$A = \pi r^2$	360	P(A and B) = P(A) P(B)

Subject: Mathematics Topic: Ch 9 Equations and Inequalities

Year / Group: 10H Term: 2

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BIG QUESTIONS	Solving Quadratics	Factorising:	Quedretie fermule diversion	Completing the square – leave
What does it mean to	We can solve quadratic	i actorising.	answer to 2 decimal places.	your answer in root form:
'solve a quadratic'?	equations in 4 different	$x^2 + 7x + 10 = 0$	$x^2 + 4x - 2 = 0$	$r^2 + 6r + 5 = 0$
How do we use algebraic	ways: $ax^2 + bx + c = 0$	(x+2)(x+5) = 0	$x = \frac{-4 \pm \sqrt{4^2 - 4(1)(-2)}}{2(1)}$	$\left(x+\frac{6}{2}\right)^{2}+5-\left(\frac{6}{2}\right)^{2}=0$
manipulation to solve simultaneous	Factorising – put into	Either: $x + 2 = 0$ x2	2(1)	$\begin{pmatrix} 2 \end{pmatrix}$ $\begin{pmatrix} 2 \end{pmatrix}$
equations?	brackets first	$\lambda = -2$	$x = \frac{-4 \pm \sqrt{16 + 8}}{2}$	$(x+3)^2 + 5 - 3^2 = 0$
How does solving	Quadratic formula	0r: x + 5 = 0 x = -5	2	$(x+3)^2 - 4 = 0$
inequalities differ from solving	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{4ac}$	<i>x</i> 3	x = 0.45 $OT: x = -4.45$	Either: $x = \sqrt{4} - 3$
equations?	2a	Line of symmetric $x = -1$	^{ry} Graphically	$Or: x = -\sqrt{4} - 3$
Sparx Maths U960, U601, U665, U397, U589, U509, U337	Completing the square $\left(x + \frac{b}{2}\right)^{2} + c - \left(\frac{b}{2}\right)^{2}$ $= 0$ Graphically	x = -1	$y = x^2 + 2x - 8$ A quadratic equation can be solved from its graph. The roots of the graph tell us the possible solutions for the equation. There can be 1 root, 2 roots or no roots for a quadratic equation. This is dependant on how many times the graph crosses the x axis. Roots $x = -4$ x = 2 y intercept = -8	You can choose any method of solving as long as it is possible – unless specifically asked to use a particular method.
		(-1,-9)		6



Subject: Mathematics Topic: Ch9 – Linear Graphs

Year / Group: 10F Term: 2



Biol	<u>ogy – B4: Bioenergetics Knowledge Organiser</u>	<u>B) Photosynthesis</u>	
A) Plant cell and leaf structure		Key term/question	Definition/answer
Plant Cells	Leaf structure Cuticle	16. Photosynthesis	Plants using light energy to convert carbon dioxide and water into glucose and oxygen
ribosomes	upper pidermis	17. Word equation for photosynthesis	Light Carbon dioxide + water> glucose + oxygen
nucleus	cell membrane	18. Symbol for glucose	C ₆ H ₁₂ O ₆
	cell wall	19. What type of reaction is photosynthesis?	Endothermic (energy is transferred from the environment to the chloroplasts by light)
	layer Air spaces	20. Uses of glucose by plants	<u>1.</u> Respiration <u>2</u> . Makes cellulose <u>3</u> . makes amino acids for protein synthesis
mitochondria	Stoma	21. Glucose + Nitrate ions =	Amino acids
chloroplasm	chloroplast	22. What plants convert glucose into for storage (2)	<u>1.</u> Starch <u>2.</u> Lipids
Key term/question	Guard cells	23. Why does glucose need to be stored as starch?	Glucose is soluble and starch is insoluble
1 Nucleus	Contains DNA that controls cellular activity	24. Osmosis	Movement of water from a high concentration to low
2 Cutoplasm		25. Turgid	Water enters the cell and cell becomes swollen
3. Cell membrane	Semi-permeable and controls what enters and exits the cell		
4. Mitochondria	Site of aerobic respiration which releases energy for the cell	Movement of water acros	ss the cell membrane
5. Ribosomes	Site of protein synthesis	Hypertonic	Isotonic Hypotonic
6. Cell wall	Supports and strengthens the cell		
7. Vacuole	Contains cell sap to keep the cell turgid		Vaçuole
8. Chloroplasts	Site of photosynthesis		
9. Flagellum on algae	Tail like structure which helps algae move to light	H ₂ O H ₂	
10. Function of epidermal tissue	Waxy cuticle to prevent water loss by evaporation		
11. Function of upper epidermis tissue	Transparent to let light pass through		
12. Function of palisade mesophyll tissue	Contains many chloroplasts for photosynthesis		
13. Function of spongy mesophyll tissue	Contains air spaces to allow gases to diffuse in and out of cells	Plasmolyzed	Flaccid Turgid
14. Guard cells	Controls the opening and closing of the stomata	1	9
15. Stomata	Holes underneath the leaf which allow carbon dioxide to diffuse <u>in</u> and oxygen to diffuse <u>out</u>	1	

Biology 4: Required practical 5 – Investigating the Rate of Photosynthesis

Method for investigating the rate of photosynthesis

- 1. Secure a boiling tube to a clamp and add sodium hydrogen carbonate solution.
- 2. Add to the boiling tube a piece of pond weed.
- 3. Using a meter ruler, place the boiling tube 10 cm away from a lamp.
- 4. Turn on lamp and wait 5 minutes to allow the pond weed to start photosynthesising.
- 5. Using the stopwatch count how many oxygen bubbles are produced in 60 seconds.
- 6. Repeat the count two more time and calculate the mean.
- 7. 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.





		Key term/question	Definition/answer
Key term/question	Definition/answer	35. Inverse square law	As the distance increases, light intensity decreases
26. What plant is used when investigating the rate of photosynthesis?	Pondweed	36. What is the relationship between distance and light intensity?	Inversely proportional
27. What is the independent variable when	Light intensity	37. Proportional symbol	x
investigating the rate of photosynthesis?		38. Inverse square law equation	Light intensity = $\propto 1 \div distance^2$
28. What is the Dependent variable when investigating the rate of photosynthesis?	The number of bubbles in 60 seconds	39. How is temperature controlled in greenhouses?	Greenhouses help traps the sun's radiation as heat inside the greenhouse
29. What are the control variables when investigating the rate of photosynthesis? (4)	<u>1</u> . Carbon dioxide concentration <u>2</u> . Temperature <u>3</u> . Light colour 4 . Same type of pondweed	40. How is carbon dioxide controlled in greenhouses?	Paraffin heaters are used because when paraffin combusts carbon dioxide is made as a by-product
30. What happens as light intensity increases?	The number of bubbles will increase.	41 How is light controlled in greenhouse	Artificial lighting ensures that plants can photosynthesise even
31. Why is sodium hydrogen carbonate solution	To control the concentration of carbon dioxide		during cloudy days or during the night
added to the boiling tube?		42. How do greenhouses improve the general	Encloses the plant to keep the plants free from pests and
32. Why is an LED bulb used?	Releases very little heat energy	health of plants?	diseases
33. How to improve the experiment	Use a gas syringe to collect the volume of gas produced	43. Why do farmers use fertilisers?	Provides the plants with minerals needed for healthy growth
34. Rate of photosynthesis =	Number of bubbles ÷ time	44. How do farmers make a profit when greenhouse costs money?	The farmer supplies the optimum level of heat, light, carbon dioxide and fertilsers to rapidly increase crop yield

C) Limiting factors of photosynthesis

	<u>(</u>	Chemistry 4 (C2): Chemical Changes Knowledge O	rganiser_
0 1 2 3	4 5 6 7 8 9 10 11 12 13 14	B) REACTIONS OF ACIDS	
		Key term/question	Definition/answer
		20. Metal + Acid →	Salt + Hydrogen
		21 . Metal oxide/hydroxide + Acid \rightarrow	Salt + Water
acidic	neutral alkaline	22. Metal carbon ate + acid \rightarrow	Salt + Water + Carbon dioxide
A) ACIDS AND ALKALIS		23. (Metal +) Hydrochloric acid (HCl)	Metal chloride
Key term/question	Definition/answer	24. (Metal +) Sulfuric acid (H_2SO_4)	Metal sulphate
1. pH scale	From 0 to 14. Tells you how acidic or alkaline	25. (Metal +) Nitric acid (HNO ₃)	Metal <u>nitrate</u>
	a solution is.	C) REACTIVITY OF METALS	
2. Acid pH range	Less than 7 (0 to 6)	26 Reactivity series	List of metals ranked in order of their reactivity
3. Alkaline pH range	More than 7 (8 to 14)	27. Ovidation	
4. Neutral pH	7		The gain of oxygen by an element of compound
5. Ways of testing the pH	1. Use universal indicator 2. Use pH meter	28. Oxidation example: $2Nig + O_2 \rightarrow$	
6 Neutralisation reaction	and probe Acid + Alkali \rightarrow Salt + Water	29. Reduction	The loss of oxygen from a compound
7 Ion	An atom that has lost or gained electrons to	30. Reduction example: $2CuO + C \rightarrow$	Cu + CO ₂
7.1011	become a charged particle.	31. OIL RIG	Oxidation Is Loss (of electrons) Reduction Is Gain (of electrons)
8. Ions released from	H ⁺	32. Ore	Rocks that contain naturally occurring metals or metal compounds
acids		D) ELECTROLYSIS	
9. Ions released from alkalis	OH-	33. Electrolysis	Ionic substances are decomposed (broken down) into simpler substances when an electric current is passed through them.
10. Neutralisation reaction (ions)	$H^++OH^- \rightarrow H_2O$	34. Electrode	Solid, conducts electricity and is submerged in electrolyte
11. Solid symbol	XX _(s)	35. Negative electrode	Cathode
12. Liquid symbol	XXm	36. Positive electrode	Anode
12 Cas sumbel		37. Negative ions move to the	Anode
13. Gas symbol	^^ _(g)	38. Positive ions move to the	Cathode
14. Aqueous (in solution	XX _(aq)	39. PANIC	Positive Anode Negative is Cathode
symbol)		40. Electrolyte	Liquid which conducts electricity
HIGHER HER		41. Why is the electrolyte molten or a dissolved ionic substance?	Contains delocalised (free) ions which can conduct electricity
Key term/question	Definition/answer	42. Method of extracting for metals less reactive than carbon	Reduction using carbon
16. Strong acid	H ⁺ ions completely ionise	43. Method of extracting for metals more reactive than carbon	Electrolysis
17. Weak acid	H⁺ ions partially ionise	44. LIMITATION OF Electrolysis	Expensive
18. ≓	Reversible reaction		Bduxite 11
19. Concentration of an	Number of dissolved acid molecules in a	46. What is aluminium oxide dissolved in during electrolysis?	Molten cryolite
acid	certain volume of water	+7. With is aluminium oxide dissolved in molten cryolite?	I to reduce the menting point and make it cheaper



Physics 5: Forces Knowledge Organiser			C) Resultant Forces		
<u>rces</u>		Key term/question	Definition/answer		
Key term/question Definition/answer		21. Resultant forces	<u>1.</u> The force you have if you replaced all the forces on an object with one single force 2 . If it is zero, forces are		
<u>1.</u> Push or pull that causes a change in speed, direction or shape. <u>2.</u> All forces come in pairs and are		(2)	balanced	gie force. <u>2.</u> If it is zero, forces are	
either contact or non-contact forces.		22. Equilibrium	When the resultant	force on an object equals 0	
2. Unit of measure for force Newtons (N)		23. Example to		50 N	
3. Vector Has magnitude (size) and direction. (Can be drawn as an arrow →)		calculate a resultant			
4. Scalar Has magnitude (size) but NO direction			Resultant force = 50	0 N – 30 N	
Force, velocit	y, momentum		Resultant = 20 N fo	rwards	
Mass, time, s	peed, temperature, energy		HIGHE	R TIER	
7. VelocityThe speed and direction of an object8. Contact forcesObjects have to be touching for the force to act		24. Free body	<u>1.</u> Each force is represented by an arrow. The length of the arrow shows the relative magnitude and the direction of the arrow shows the direction of forces .		
		diagram (2)			
ontact forces examples (4) <u>1.</u> Friction <u>2.</u> Air resistance <u>3.</u> Tension <u>4.</u> Normal contact		1	2. Object represent	red as a dot on centre of mass.	
Forces that a	ct without needing to touch	to touch 25. Example of free		Reaction force.	
<u>1.</u> Magnetic f	orce <u>2.</u> Electrostatic force <u>3.</u> Gravitational	body diagram	Friction, 5 N Weight, 10 N		
]			
	Definition/answer				
	A natural phenomenon by which all things with mass or energy (e.g. planets, stars, galaxies) are attracted to one another.	26. Scale drawings If resultant forces are not parallel , can be		re not parallel , can be used to find the	
	Gives a measure of how much force an object will experience. Measured in N/kg		resultant force actil	ng on an object	
h	9.8 N/kg (This will be given in exams and may be 10N/kg)	A women on an electric bicycle has a driving force of 4 N north, but the wind produc a force of 3 N east. Find the magnitude and direction of the resultant force.			
	Is the force acting on an object due to gravity. Measured in N using a newton meter .				
	The amount of matter (stuff) in an object.	1. Choose a scale to draw the forces acting tip-to-tail.		3 cm	
	Newtons (N)	2.Draw the resultant	from the tail to	drawn to scale	
	Kilograms (kg)	the first arrow to the tip of the last 4 cm		4 cm	
	Weight (N) = mass (kg) x gravitational field strength (N/kg) W = mg	3. Use a ruler to mea	a ruler to measure the length		
mass?	Directly proportional	and the scale to find 4. Use a protractor to	the force. o measure the	13	
	The point at which the whole mass is concentrated	direction as a bearin	g.	Answer: the resultant force is 5 N on a bearing of 37°	
	Physic rces Definition/an 1. Push or pu either contact Newtons (N) Has magnituc Has magnituc Force, velocit Mass, time, s The speed an Objects have 1. Friction 2. A Forces that ac 1. Magnetic f h h h h h h	Physics 5: Forces Knowledge Organiser Definition/answer 1. Push or pull that causes a change in speed, direction or shape. 2. All forces come in pairs and are either cort or non-contact forces. Newtons (N) Has magnitude (size) and direction. (Can be drawn as an arrow →) Has magnitude (size) but NO direction Force, veloc(ity, momentum Mass, time, speed, temperature, energy The speed and direction of an object Objects have to be touching for the force to act 1. Friction 2. Air resistance 3. Tension 4. Normal contact Forces that act without needing to touch 1. Anagnetic force 2. Electrostatic force 3. Gravitational Polinition/answer a natural phenomenon by which all things with mass or energy (e.g. planets, stars, galaxies) are attracted to one another. galaxies) are attracted to one another. Gives a measure of how much force an object will experience. Measured in N/kg h 9.8 N/kg (This will be given in exams and may be 10N/kg) is the force acting on an object due to gravity. Measured in N using a newton meter. i. Singrams (kg) Newtons (N) weight (N) = mass (kg) x gravitational field strength (N/kg) W = mg mass? Directly proportional	Physics 5: Forces Knowledge Organiser C) Resultant Forces rces Key term/question Definition/answer 21. Resultant forces (2) 1. Push or pull that causes a change in speed, direction or shape. 2. All forces come in pairs and are either contact or non-contact forces. 22. Equilibrium Newtons (N) 32. Example to calculate a resultant force 23. Example to calculate a resultant force Has magnitude (size) and direction. (Can be drawn as an arrow ->) 33. Example to calculate a resultant force Has magnitude (size) but NO direction 34. Free body Mass, time, speed, temperature, energy 44. The speed and direction of an object 24. Free body Objects have to be touching for the force to act 41. 1. friction 2, Air resistance 3, Tension 4, Normal contact 25. Example of free body diagram Forces that act without needing to touch 25. Example of free body diagram 1. A natural phenomenon by which all things with mass or energy (e.g. planets, stars, galaxies) are attracted to one another. 26. Scale drawings Gives a measure of how much force an object will experience. Measured in N/kg 50. Scale drawings A natural phenomenon by which all things with mass or energy (e.g. planets, stars, galaxies) are attracted to one another. 26. Scale drawings <	Physics 5: Forces Knowledge Organiser C Resultant Forces rccs Key term/question Definition/answer 1, Push or pull that causes a change in speed, direction or shape. 1 All forces come in pairs and are either contact mon-cottact forces. Resultant forces 1. Resultant forces 1. Resultant forces 1. Resultant force 1. Resultant forces 1. Resultant force 2. Equilibrium When the resultant force = 5 Newtons (N) Has magnitude (size) and direction. (Can be drawn as an arrow →) 3. Sample to calculate a resultant force = 5 2. Equilibrium Satemple to calculate a resultant force = 5 Resultant fo	

Physics 5: Forces Knowledge Organiser

C) Resultant Forces		<u>E)</u> [
Key term/question	Definition/answer	Key
	HIGHER TIER	32.
27. Resolving forces	Some forces are at angles. The forces can be split into two components acting at right angles to each other.	33.
		34.

Resolving force worked example

The scale diagram shows a toy car being pulled along horizontally by a string. The tension in the string has a magnitude of 2.5 N. Resolve the tension to find the magnitude of this force acting in the direction of the car's motion.

- 1. Draw the force to scale.
- 2. Add the horizontal and vertical component.
- Measure the length of the arrow for the force to be resolved. (It's measured at 2.5 cm, so 1 cm = 1N)
- The car is moving horizontally so measure the length of the horizontal component. (it's measured at 2 cm), so the magnitude of the force acting in the direction of the car's motion = 2N.

Answer: magnitude of the force acting in the direction of the car's motion = 2N.



D) Work Done	
Key term/question	Definition/answer
28. Work done	The energy transferred when a force moves an object through a distance
29. Work done equation	Work done (J) = force (N) x Distance (m) W = Fs
30. 1 Joule in newton-metres	1 newton metre (Nm)
31. What does work done against frictional forces cause?	A rise in temperature of the object

E) Forces and motion - speed and velocity			
Key term/question	Definition/answer		
32. Distance	How far an object moves (scalar quantity)		
33. Displacement	Measures distance and direction in a straight line from objects starting point to finishing point (vector quantity)		
34. Speed	How fast an object is travelling with no regard to direction.		
35. Typical walking speed	1.5 m/s		
36. Typical running speed	3 m/s		
37. Typical cycling speed	6 m/s		
38. Typical car speed	25 m/s		
39. Typical train speed	55 m/s		
40. Typical plane speed	250 m/s		
41. Speed of sound in air	330 m/s		
42. Velocity	How fast you are travelling and in which direction		
43. Speed equation	Distance travelled (m) = speed (m/s) x time (s) s = vt		
44. HIGHER TIER What happens to the velocity of an object moving at a constant speed in a circle?	Velocity is always changing as direction is always changing		
E) Forces and motion - accelera	<u>tion</u>		
Key term/question	Definition/answer		
45. Acceleration	A measure of how quickly velocity is changing		
46. Acceleration equation	Acceleration (m/s ²) = change in velocity (m/s) \div time taken (s) a = $\Delta v \div t$		
47. Uniform acceleration	An object travelling at a constant acceleration		
48. Uniform acceleration equation	Final velocity ² (m/s) – initial velocity ² (m/s) = 2 × acceleration (m/s ²) × displacement (m) ₄ $v^2 - u^2 = 2as$		

History – Year 10 Term 2 Weimar and Nazi Germany, 1918–39, Topic Hitler's Rise to Power and the Creation of a Dictatorship

BIG QUESTIONS

Hitler's Rise to Power and the creation of a dictatorship

Hitler's early years – How was a Monster made?

What happened when Hitler tried to seize power in 1923

How did the Nazi party change after the Munich Putsch?1924-28

What happened when Wall Street crashed?

Why did people support Hitler?

How was Hitler able to become chancellor?

Who started the Reichstag Fire and how did it benefit Hitler?

How did Hitler become dictator in Germany?

How did the Nazis use terror and the legal system to maintain control in Germany?

SUMMARY OF THE PERIOD

After the failed Munich Putsch of 1923 the Nazi party changed and Hitler decided that power needed to be acquired democratically. The Nazis remained in relative obscurity until the Wall Street Crash of 1929 which led to mass unemployment as part of the Great Depression. Many Germans turned to political extremes as the moderate centrist Weimar parties seemed unable to do anything to resolve the situation. By 1932 Hitler was leader of Germany's largest political party and following the political deal between von Papen and Hindenburg, Hitler was granted the title of chancellor of Germany in January 1933. By August 1934 Hitler managed to turn the constitutional position of chancellor into a dictator's role by capitalising on the Reichstag Fire to gain emergence powers, which helped him subsequently pass the Enabling Act, which allowed him to pass any laws he wanted without them being voted on in the Reichstag. He used this to ban other political parties and trade unions and when Hindenburg died in August 1934 he took the role of president as well as chancellor and became Fuhrer of Germany. A dictatorship had been established.

Key events and dates:

14th February 1926: Bamberg conference – Nazi party became more nationalist than socialist

29th October 1929: Wall Street Crash

31st July 1932: Nazis largest party in the Reichstag

30th January 1933: Hitler appointed Chancellor

27th February 1933: Reichstag Fire rips through the Reichstag building and Dutch Communist Van der Lubbe is arrested and executed for starting it.

28th February 1933: Reichstag Fire decree The Nazis use the fire to pass a decree banning the Communist Party and suspending some civil liberties.

23rd March 1933: The Enabling Act passes the Reichstag. The Enabling Act gives Hitler complete authority in Germany. 1st **April 1933:** Boycott of Jewish shops and businesses. The Nazis organise a boycott of Jewish shops and businesses. The SA are used to intimidate customers.

26th April 1933: Establishment of the Gestapo The official secret police of Nazi Germany is created by Hermann Göring. **20th July 1933:** Concordat with the Catholic Church. The Nazis and Catholic Church sign an agreement to leave each other alone.

30th **June 1934:** Night of the Long Knives. Hitler removes enemies of the party through a purge of critics. Victims include Ernst Röhm (the Head of the SA) and other leading Nazis.

2nd August 1934: Death of President Hindenburg

Hindenburg dies of Lung Cancer. Hitler proclaims the merging of the roles of Chancellor and President. Hitler is undisputed ruler of Germany.

Key Vocabulary

Hitler's Rise to Power (Chancellorship) 1923-1933

Article 48: constitutional device allowing the president of Germany to pass laws at times of crisis Nationalism: political view in which all policies are organised to make the nation stronger and more independent Socialism: Political view that stresses that a country's land, businesses and wealth should belong to the workers **Putsch:** Seizure of power/coup d'etat **Real Wages:** Measure which reflects the buying power of wages rather than their stated monetary value **Chancellor:** German head of government in his role as leader of the largest political party Reichstag: German parliament SA: Paramilitary Stormtroopers under the command of Ernst Rohm **Propaganda:** Use of media to control public attitudes **25 Point programme:** political manifesto of the Nazi party Wall Street Crash: Stock market crash in 1929 in America which lead to the Great Depression Hitler's Rise to Dictatorship - January 1933-August 1934 **Dictator:** ruler with absolute control Enabling Act: Law passed by the Nazis in March 1933 allowing Hitler to pass laws without the approval of the Reichstag **Police State:** use of terror and police/troops to scare population into obedience Trade Union: organizations formed by workers from related fields that work for the common interest of its members e.g. on pay and working condition. Banned by Hitler in May 1933 Night of the Long Knives: 30 June 1934 – Senior SA members including Rohm arrested and shot

Fuhrer: Supreme ruler of Germany – Hitler declared himself this following the Death of Hindenburg

Oath of Loyalty: All army soldiers were forced to swear loyalty and obedience to Hitler

Links to support your understanding of the topic

https://www.bbc.co.uk/bitesize/guides/z3bp82p/revision/1 (a number of pages summarizing all key information for the Nazis' rise to power) https://www.bbc.co.uk/bitesize/guides/zsvhk7h/revision/1 (a number of pages summarizing all key information for the creation of the dictatorship)

https://www.youtube.com/watch?v=a2YEUhHFMHY (good summary of the rise of the Nazis from 1923-1929)

Term 2 - homework

<u>Week 2 – Revise for Term 1 Week 3 assessment</u>

<u>Week 5/6 – Complete the two 4 mark</u> interpretation questions below

(b) Study Interpretations 1 and 2. They give different views about the effects of the reasons people supported the Nazis in the period 1929-32. What is the main difference between these views? Explain your answer, using details from both interpretations.(4)

The main difference between the two interpretations is that...

Interpretation one states ... which suggests ...

Whereas Interpretation two states ... which suggests ...

(c) Suggest one reason why Interpretations 1 and 2 give different views about the reasons people supported the Nazis in the period 1929-32. You may use Sources B and C to help explain your answer.(4)

A reason that the Interpretations may differ is because they have been influenced by different sources.

For example the historian in Interpretation 1 whose view is ... may have been more influenced by source ... which shows/states...

On the other hand the historian in Interpretation 2 whose view is ... may have been more influenced by source ... which shows/states...

Source B - From 'A Fairytale of Christmas', a short story written in 1931, by Rudolf Leonhard, a member of the Communist Party (KPD). Leonhard was writing about the unemployed in Germany

No one knew how many of them there were. They completely filled the streets...They stood or lay in the streets as if they had taken root there. The streets were grey, their faces were grey, and even the hair on their heads and the stubble on the cheeks of the youngest there was grey with dust and their adversity.

Source C - Adapted from a diary of Luise Solmitz, 23 March 1923. A schoolteacher, Solmitz was writing about attending a meeting in Hamburg at which Hitler spoke.

There stood Hitler in a simple black coat, looking over the crowd of 120,000 people of all classes and ages...a forest of swastika flags unfurled, the joy of this moment showed itself in a roaring salute...The crowd looked up to Hitler with touching faith, as their helper, their savior, their *deliverer from unbearable distress...He is the rescuer of the scholar, the farmer, the workers and the unemployed*.

Interpretation 1 From a history textbook, GCSE Modern World History, B.Walsh, published in 1996.

The Nazis won increased support after 1929 due to Hitler. He was their greatest campaigning asset. He was a powerful speaker and was years ahead of his time as a communicator. He travelled by plane on a hectic tour of rallies all over Germany. Je appeared as a dynamic man of the moment, the leader of a modern party with modern ideas. At the same time, he was able to appear to be the man of the people, someone who knew and understood the people and their problems. Nazi support rocketed.

Interpretation 2 From a history textbook, Modern World History, T. Hewitt, J. McCabe and A. Mendum, published in 1999.

The Depression was the main reason for increased support for the Nazis. The government was taken by surprise at the speed and extent of the Depression. It also had very few answers as how to deal with it. The Depression brought out all the weaknesses of the Weimar Republic, which seemed to be incapable of doing anything to end it. Is is not promising to do something. In particular, they began to look to and support the Nazis.

Geography Cold environments

Year: 10 Term: 2

BIG QUESTIONS

- 1. How cold are polar and tundra areas?
- 2. Why are cold environments so fragile?
- 3. How do plants adapt to cold environments?
- 4. How do animals and humans live in such extreme cold?
- 5. How does tourism provide opportunities for Svalbard?
- 6. Should we be drilling Alaska for oil?
- 7. What challenges do humans continue to face living in cold environments?
- 8. Should cold environments just be left alone?

Homework...

Svalbard - Cold environment Flashcards | Quizlet

<u>Svalbard Case Study - Internet</u> <u>Geography</u>



Plants:

- Most plants become dormant (stop trying to grow) to survive the cold, dark winters.
- Plants are small and round-shaped to
- provide protection from the wind.
- Most plants have shallow roots because of the layer of permafrost beneath the soil layer.
- Leaves are generally small to limit the amount of moisture lost through transpiration.
- The warmer, wetter summer is very short, so most plants have adapted to a growing season of just 50-60 days.
- Many plants use underground runners or bulbs instead of seeds to reproduce because the growing season is so short.



 Svalbard
 Alaska
 SAVE THE COLD ENVIRONMENTS
 There are relatively few different species of animals compared with other ecosystems
 Polar bears, penguins and marine mammals like whales, seals and walrus are examples of animals found in polar regions
 Lemmings, Arctic hares, wolves and reindeer are all animals that live in tundra areas

Plants and animals have adapted to the cold, dry climate

Animals:



They are well-insulated – they might have a thick fur coat like polar bears or a layer of blubber like seals. This reduces the amount of energy they have to use to keep warm.

live on Antarctica for short

periods. Some indigenous

to many people including

gas workers in larger towns

people live in Arctic regions

Tundra environments are home

indigenous peoples, and oil and

- Some animals hibernate to conserve energy and survive the winter, e.g. Arctic ground squirrels hibernate for 7-8 months of the year and can survive even if their body temperature drops below freezing.
- Animals that don't hibernate have adapted to survive on the limited food sources available in winter. Reindeer have adapted to eat lichens in winter.
- Many birds migrate to warmer area during winter Arctic terns live in the Arctic during the northern hemisphere summer then fly to the Antarctic for the southern hemisphere summer.
- Many animals have white coats in winter for camouflage – this helps predators sneak up on prey, and prey to hide in the snow. Arctic hares are white so they are harder for predators to spot in the snow.

Cold environments are fragile, interdependent ecosystems with low biodiversity:

The biotic (living) components (plants, animals and people) and the abiotic (non-living) components (climate, soils, permafrost are closely related- if one of them changes, the others are affected.

Interdependence

- Plants gain their nutrients from the soil and provide nutrients to the animals that eat them. In turn, animals spread seeds through their dung, helping the plants to reproduce.
- Herbivores such as reindeer that rely on mosses to survive must migrate to areas where plants are able to grow, in order to find food. Carnivores like wolves must follow the herbivores.
- Changes in parts of the ecosystem, such as vehicles damaging plant cover, can have knockon effects on the whole ecosystem. For example, permafrost can melt which leads to flooding and prevents plants from growing. It also releases trapped greenhouse gases such as carbon dioxide and methane and contributes to global warming, further threatening cold environments.

Technology can provide environmentally friendly solutions to some of the challenges of developing cold environments. These includes examples such as the use of insulated pipes to transport water to people's house and waste from them.

rouments in favour Arguments against · Cold environments are rich in · Wilderness areas are fragile resources, such as oil, precious and are easily damaged by minerals, fish and timber. economic activities. Over 4 million people already live Untouched natural in the Arctic in balance with the environments form important environment. outdoor laboratories for scientific research. · Technology now allows cold environments to be exploited Rare plants and animals will be with less impact. protected.

Should cold environments be protected as wilderness areas?

Svalbard is very remote and can only be reached by plane or ship. There is one international airport, at Longyearben, with flights from Norway and Russia. There is a very limited road network (about 50km) mostly around Longyearben. Transport is mainly by snowmobiles.

Construction and services

People involved in construction (roads, buildings, harbour extension) have to cope with very challenging weather conditions (extreme cold and winter darkness). Buildings are very well insulated. The frozen ground (permafrost) provides firm foundations but care must be taken to prevent thawing and subsistence. Gravel roads, raised above the ground surface (to prevent heat transfer), are relatively cheap to maintain. Domestic services (water sanitation) are raised off the ground in insulated pipes so they can be serviced and to prevent possible melting of permafrost.

Tourism

Tourism in Svalbard has grown in recent years as people seek to explore extreme natural environments.

In 2011, 70 000 people visited Longyearben and 30 000 of these were cruise passengers.

The harbour at Longyearben was enlarged to allow for more cruise ships.

Tourism provides around 300 jobs for locals.

Most tourists come from Norway and most visit as part of organised tours.

Tourists come to explore the extreme environment and see glaciers, wildlife, especially polar bears. Adventure tourism is becoming more popular with activities such as Oil is in high demand and is a source of energy hiking, kayaking and snow mobile safaris.

In the winter, tourists visit to see the Northern worst environmental disaster for cold



International Agreements

Key vocabulary

Biodiversity – the variety of plant and animal life in a particular habitat. Fragile environment – a delicate and precious part of

our world.

Polar – situated near to the earth's poles, reaching -40 degrees in winter.

Tundra – a vast, flat, treeless Arctic region of Europe, Asia and North America in which the subsoil is permanently frozen.

Wilderness area – an area of land undisturbed by human activity or development. **Permafrost** – permanently frozen ground. **Thermal Growing Season** – the

portion of the year in which local condition's permit normal plant growth.

Adapt – a change to fit certain conditions.

Interdependence – the dependence of two or more species upon each other, and the environment. **Development** – the process of change and growth to improve quality of life. **Infrastructure** – the basic facilities and structures that help a government and

community run. Mineral extraction – the removal from the earth materials with industrial value. Mitigation – the action to reduce the severity or seriousness of something. International Agreement – legal binding arrangement made between countries. **Conservation** – the protection. preservation and management of something.



Trans-Alaskan Pipeline



Cold Environments - oil spills

countries are keen to exploit. An oil spill is the

BIG QUESTIONS

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

Describe the process of development in artists' work.

Compare similarities and differences in artists' work.

Explain why primary sources are the richest form of research.

How can Secondary sources enrich the development of ideas?

List different ways of recording your observations of the subject matter.

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

How can the refining process help you to fully realise intentions?

Overarching Big Question 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.

RECORD	DEVELOP
 I will learn to record images and information appropriate to a given theme 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 	 I will learn how to develop 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
 REFINE I will learn how to select and experiment with a range of 2D/3D media and techniques select ideas to adapt and improve e.g. adjustments to size, colour and composition. develop a piece of work from one media into another 	 EVALUATE I will learn how to analyse and reflect on the development of my own work, through annotation making connections to artists and suggesting ways I could I improve. evaluate artists using analytical writing skills and forming opinions
PRESENT OUTCOUMES I will learn how to Produce one or more finished outcomes in 2D or 3D	



Homework Links

Tasks linked to the theme 'Structures' (2 hours per twoweek cycle)



Key Vocabulary

Shape/Form/Scale/ Texture/Tone/Colour/ Composition/Primary Source/Secondary Source

I will be expected to recall keywords learned in previous projects and use them in the appropriate context.

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/HAP PY/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...

Annotate means to explain your own creations Artist evaluation is when you write about the artist Project evaluation is written about the whole project at the end

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...
- 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?

Cambridge National L Unit: R180: Red	evel 1 / 2 Sport Science ducing the risk of sports injuries an	d dealing with common medical con	ditions Years: 9, 10, 11 Terms: 1-6
Big Questions 1) How do different extrinsic factors influence the risk and	Topic Area 1: Different factors which influence the risk and severity of injury	Topic Area 2: Warm up and cool down routines	Topic Area 3: Different types and causes of sports injuries
 influence the risk and severity of injury? 2) How do different intrinsic factors influence the risk and severity of injury? 3) What are the key components of a warm up? 4) What are the physiological and psychological benefits of a warm up? 5) What are the key components and physiological benefits of a cool down? 6) What are the types and causes of acute injuries? 7) What are the types and causes of chronic injuries? 8) How can you reduce the risk and severity of an injury or medical condition? 9) What are the common responses and treatments to medical conditions? 10) What are the common causes, symptoms and treatments to medical causes of acute indication and the causes of acute indication and the causes of and the causes and the causes of the causes of the cause of the causes of the cause of the caus	 Key Terms: Extrinsic factors – where the factor or risk of injury comes from outside the body Intrinsic factors – where the factor or risk of injury comes from within the body Contact sports – sports where physical contact between performers is an accepted part of play Non-contact sports – sports where participants compete alternately, or are physically separated, or the rules detail no contact. Hypothermia – a dangerous drop in body temperature below 35°C. Veterans – performers above a certain age that is specific to the sport. Psychological factors – mental factors that affect a performer. Motivation – the drive to do something. Arousal – level of activation or excitement. Stress – the feelings we get when we find it difficult to cope with the demands placed on us. Confidence – belief in your own ability to master a situation. Aggression – Intention to cause harm. Mental rehearsal – going over a skill in the mind before performance. 	 Key Terms: Warm up - exercises to prepare the body for exercises so that the chances of injury or ill effects are reduced. Dynamic stretches – active stretching exercises. Adrenaline - hormone that prepares the body for exercise. Lactic Acid - waste product of anaerobic exercise; it causes fatigue. Anaerobic – without oxygen; oxygen is not used to produce energy during high-intensity, short-duration anaerobic exercise. Cool down - easy exercise done after a more intense activity to allow the body to gradually move to a resting condition. Maintenance stretches - stretches designed to just maintain flexibility. Static stretches – stretches where the stretched position is held for many seconds in an attempt to improve flexibility. Proprioceptive neuromuscular facilitation (PNF) - advanced form of flexibility training, involving both the stretching and contracting of the muscles being targeted. Delayed onset muscle soreness – muscle pain that starts a day or two after an exercise workout. 	 Key Terms: Acute injuries – injuries caused by impacts or collisions. Chronic injuries - injuries caused by continuous stress. Soft tissue injuries - injuries to muscles, tendons or ligaments. Hard tissue injuries – injuries to part of the skeletal system, such as fractures or dislocations. Strains - injuries to muscles. Sprains - injuries to ligaments. Ligaments - tissue that connects bone to bone and strengthens joints. Abrasion - surface damage to the skin; grazes. Cut - skin wound where the tissues of the skin become separated. Laceration - a torn or jagged wound caused by a sharp object. Contusion - bruise caused by blood leaking into the surrounding area. Blister - bubble on the skin caused by friction. Fracture - partial or complete break in a bone. Dislocation - when a bone is dislodged from its position in a joint. Concussion - head injury in which the brain is shaken inside the skull. Tendonitis - inflammation of the tendons. Epicondylitis - inflammation of an epicondyle of a bone.
conditions?			 Stress tracture – tiny cracks in a bone caused by repetitive force, often from overuse.

Cambridge National Level 1 / 2 Sport Science Unit: R180: Reducing the risk of sports injuries and dealing with common medical conditions

Big Questions

- 1) How do different extrinsic factors influence the risk and severity of injury?
- 2) How do different intrinsic factors influence the risk and severity of injury?
- 3) What are the key components of a warm up?
- 4) What are the physiological and psychological benefits of a warm up?
- 5) What are the key components and physiological benefits of a cool down?
- 6) What are the types and causes of acute injuries?
- 7) What are the types and causes of chronic injuries?
- 8) How can you reduce the risk and severity of an injury or medical condition?
- 9) What are common responses and treatments to medical conditions?
- 10) What are the common causes, symptoms and treatments of medical conditions?

Topic Area 4: Reducing risk, treatment and rehabilitation of sports injuries and medical conditions

Key Terms:

- ✓ Hazard something that can cause harm.
- ✓ Risk the likelihood of danger.
- Risk assessment careful examination of what, in relation to a sports activity, could cause harm to people.
- Electrocardiogram (ECG) technology used to detect the rhythm and electrical activity within the heart.
- Emergency action plan (EAP) written document identifying what action to take in the event of an emergency at a sporting event.
- ✓ SALTAPS acronym for see, ask, look, touch, active, passive, strength.
- ✓ DRABC acronym for danger, response, airway, breathing and circulation.
- Recovery position position for an unconscious person that keeps their airway clear and open.
- ✓ PRICE acronym for protection, rest, ice, compression, elevation.
- ✓ Ultrasound use of high frequency sound waves to diagnose and treat injuries.
- ✓ **Electrotherapy** use of electrical energy to treat injuries.
- Hydrotherapy use of water to improve blood circulation, relieve pain and relax muscles.
- ✓ **Cryotherapy** use of cold temperatures to treat injuries.
- ✓ Contrast therapy use of quickly changing temperatures from hot to cold and back again to treat injuries.
- ✓ Analgesics medication used to relieve pain.
- Cast hard fibreglass or plaster casing designed to prevent broken bones from moving.
- ✓ Splint plastic or fibreglass support for a limb injury.
- ✓ Sling support, usually of folded cloth, designed to immobilise and rest the arm.

<u>Topic Area 5</u>: Causes, symptoms and treatment of medical conditions

Key Terms:

- ✓ Asthma a condition in which the airways narrow and swell, which can make breathing difficult.
- ✓ **Inhaler** device that allows medicine to be breathed in.
- ✓ **Nebuliser** machine that allows medicine to be breathed in.
- ✓ **Glucose** simple sugar found in blood used as an energy source.
- ✓ Insulin a hormone that lowers blood glucose levels.
- ✓ Diabetes condition in which blood sugar levels are not regulated by the body effectively.
- ✓ Ketones chemicals produced by the liver during fat breakdown.
- ✓ Diabetic ketoacidosis (DKA) a condition caused by excess ketones in the blood.
- ✓ Insulin-dependent another name for Type 1 diabetes.
- ✓ **Insulin-resistant** another name for Type 2 diabetes.
- ✓ **Hypoglycaemia** low blood sugar level.
- ✓ **Hyperglycaemia** high blood sugar level.
- ✓ **Epilepsy** abnormal brain activity that causes recurring seizures.
- ✓ Seizures bursts of electrical activity that temporarily affect how the brain works.
- ✓ **Triggers** things that make epileptic seizures more likely.
- ✓ **Fatigue** a feeling of overwhelming tiredness.
- ✓ Anti-epileptic drugs (AEDs) medicine taken to help control seizures.
- Ketogenic diet a diet high in fats and low in carbohydrates and proteins.
- ✓ Sudden cardiac arrest (SCA) a condition in which the heart suddenly and unexpectedly stops beating.
- ✓ Commotio cordis a sudden trauma, such as a blow to the chest directly over the heart at certain points in the heartbeat cycle, that can cause sudden cardiac arrest.
- ✓ Electrolytes minerals found in blood, urine and sweat that carry an electric charge when dissolved in water.

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

 Big Question How are component fitness relevant different sports 	nents of	opic Area 1: Components of fitness applied in sport		Topic Area 2 : Principles of training in sport
2) Can you justify of different compo	vhy nents of	Terms:	Ke	<u>y Terms</u> :
different sports	ant for v	get oxygen to the working muscles for use by the body.		and reversibility.
3) What fitness tes	ts are	Muscular endurance - the ability of a muscle to sustain repeated contractions.	 ✓ 	Specificity - making training specific to the movements, skills and muscles that are used in the activity.
component of fi	tness? ✓	Aerobic - with oxygen; oxygen is used to produce energy during low intensity, long-duration aerobic exercise.	 ✓ 	Progression – gradually making training harder as it becomes too easy.
 Can you apply the components of the	itness to	Speed - the maximum rate at which an individual is able to	✓	Overload - working harder than normal.
a skilled perform	nance?	perform a movement. Strength - the extent to which a muscle or muscle group can	✓	Reversibility – 'use it or lose it'. If you stop training, you will lose fitness.
5) What are the pr	inciples	contract against resistance.	✓	FITT - principles of overload: frequency, intensity, time and type.
5) What are SMAR	Γgoals?	Power - the exertion of rapid muscular strength; it can be remembered as strength × speed.	✓	SMART - principles of goal setting: specific, measurable, achievable, realistic and time bound.
) What are metho	ds of √	Agility - the ability to move and change direction quickly while maintaining control.	✓	Continuous training - any activity or exercise that can be continuously repeated without suffering undue fatigue.
advantages/ disadvantages?	ır 🗸	Balance - the ability to maintain a position; this involves maintaining the centre of mass over the base of support.	✓	Aerobic training zone – the optimal zone of training to make aerobic gains in the body to improve cardiovascular endurance
)))(het festere ek	√ v	Flexibility - the range of movement possible at a joint.		and stamina.
consider when a fitness training	lesigning	Co-ordination - the ability to use two or more body parts together (simultaneously) smoothly and efficiently.		Fartlek training - 'speed play', which generally involves running, combining continuous and interval training with varying speed
programme?	↓	Reaction time - the time taken from the onset of a stimulus to the start of the reactive movement.	✓	Interval training – any training that involves periods of work and
principles of tra	ning to a	Maximum oxygen uptake (VO2 Max) – maximum volume of oxygen that can be consumed per minute / unit of time.		rest. Circuit training - a series of exercises performed at work
programme?	✓	Protocol - the accepted or established procedure for conducting		stations with periods of work and rest.
)) How do you pla	na	a test.		Plyometric training - repeated exercises such as bounding,
fitness training	↓ ↓	component of fitness that it aims to test.		fast, powerful movements.
1) Herride verviere	✓	Reliability - a fitness test is reliable if it can be repeated and		Eccentric contraction - when a muscle contracts and lengthens.
results from a fi	iness	gives similar results each time.		Concentric contraction - when a muscle contracts and shortens in length.
training program	ime?	order to produce a valid, comparable result.		Resistance training - training that involves working against some
2) What are the st	engths 🗸	Sub-maximal tests - fitness tests that do not require maximal		kind of force that 'resists' the movement.
improvement fo	r your 🧹	exercion. PAR-O - nhysical activity readiness questionnaire		High-intensity interval training (HIIT) - training that involves
programme?				periods of very high-intensity work and rest.

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

Years: 9, 10, 11 Terms: 1-6

Big Questions

- 1) How are components of fitness relevant to different sports?
- 2) Can you justify why different components of fitness are relevant for different sports?
- 3) What fitness tests are used for each component of fitness?

4) Can you apply the components of fitness to a skilled performance?

- 5) What are the principles of training?
- 6) What are SMART goals?
- 7) What are methods of training and their advantages/ disadvantages?
- 8) What factors should you consider when designing a fitness training programme?
- 9) How do you apply the principles of training to a fitness training programme?
- 10) How do you plan a fitness training programme?
- 11) How do you record your results from a fitness training programme?
- 12) What are the strengths and areas for improvement for your fitness training programme?

<u>Topic Area 3</u>: Organising and planning a fitness training programme

Key Terms:

 \checkmark

- ✓ One rep max the maximum weight that can be lifted once (one repetition).
 - Adaptability flexibility to adapt a programme if, for any reason, the session being performed cannot be followed precisely.
- ✓ Objective measures facts that provide figures/ numbers, which can allow a performer to monitor improvement.



Figure 2.36 One rep max refers to the maximum weight that can be lifted once

Topic Area 4: Evaluate own performance in planning and delivery of a fitness training programme



Target area	Suitable activity
Cardiovascular endurance/	Specific exercises: any aerobic activity, for example cycling, swimming, jogging, walking, rowing Overload intensity: 60–80 per cent of maximum heart rate [220 – age]
stamina	Time: 20 minutes or more of activity, three to four times per week
Muscular	Specific exercises: use of high resistance, for example weights, resistance machines, body weight
strength	Overload intensity: 70 per cent or more of one rep max (maximum lift); three sets of six to eight repetitions
	Time: 30 minutes or more
Muscular	Specific exercises: use of low resistance, for example weights, resistance machines, body weight
endurance	Overload intensity: less than 70 per cent of one rep max (maximum lift); three to four sets of 10–15 repetitions
	Time: 30 minutes or more
Agility	Specific exercises: shuttles or circuits that involve speed work while changing direction, for example sprinting round cones, ladder running
	Overload intensity: work : rest ratio of 1 : 3 [30 seconds work with 90 seconds rest between different exercises]
	Time: 30 minute sessions, two or three times per week
Speed	Specific exercises: use speed ladders, sprints, interval sprints
	Overload intensity: work: rest ratio of 1:3 (30 seconds work with 90 seconds rest between different exercises)
	Time: 30 minutes or more
Power	Specific exercises: interval training – high-intensity, short sharp activities; acceleration sprint training; plyometric training, for example box jumping and hurdle jumps
	Overload intensity: for example, box jumps with three to six sets of 8–15 repetitions, depending upon the stress of the exercise being done; sprints with a work : rest ratio of 1 : 3 [30 seconds work with 90 seconds rest between sprints]
	Time: 30 minutes or more
Balance,	Specific exercises: use of predesigned circuit to include flexibility stretches, co-ordination drills or

Cambridge National Level 1 / 2 Sport Science Unit: R182: The body's response to physical activity and how technology informs this

Years: 9, 10, 11 Terms: 1-6

Big Questions

- 1) What is the function and role of the cardiorespiratory system?
- How is technology used to inform us about the cardiorespiratory system?
- 3) What are the components and role of the musculoskeletal system?
- 4) How is technology used to inform us about the musculoskeletal system?
- 5) What are the shortterm effects of exercise on the cardiorespiratory system?
- 6) What are the shortterm effects of exercise on the musculo-skeletal system?
- 7) What are the longterm effects of exercise on the cardiorespiratory system?
- 8) What are the longterm effects of exercise on the musculo-skeletal system?

Topic Area 1: The cardio-respiratory system and how the use of technology supports different types of sports and their intensities

Key Terms:

- Atria upper chambers of the heart that collect blood from veins.
- ✓ Ventricles lower chambers of the heart that pump blood out through arteries.
- ✓ Valves prevent the backflow of blood.
- Deoxygenated venous blood (in veins) that does not carry oxygen.
- ✓ **Oxygenated** arterial blood (in arteries) that carries oxygen.
- ✓ Arteries blood vessels that mainly carry oxygenated blood away from the heart.
- Capillaries tiny, thin walled blood vessels that join arteries (which carry blood away from the heart) and veins (which carry blood back to the heart).
- ✓ Alveoli tiny air sacs in the lungs.
- ✓ Veins blood vessels that mainly carry deoxygenated blood back to the heart.
- ✓ **Trachea** tube connecting the mouth and nose to the lungs.
- ✓ Lungs large spongy organs in chest; used for gas exchange.
- ✓ Bronchi airways that lead from the trachea into the lungs.
- ✓ Bronchioles air passages inside the lungs that connect the bronchi to the alveoli.
- Diaphragm dome-shaped muscle causing inhalation and exhalation.
- Radial pulse heart rate that can be felt at the wrist.
- ✓ Carotid pulse heart rate that can be felt at the neck.
- ✓ Vasoconstriction reduction in the diameter of a blood vessel to reduce blood flow through that vessel.
- ✓ Vasodilation widening in the diameter of a blood vessel to increase blood flow through that vessel.
- Cardiac output the volume of blood that the heart is able to pump out in one minute.
- Stroke volume the volume of blood that leaves the heart during each contraction.

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.
- \checkmark **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.

Cambridge National Level 1 / 2 Sport Science Unit: R182: The body's response to physical activity and how technology informs this

Big Questions

- 1) What is the function and role of the cardiorespiratory system?
- 2) How is technology used to inform us about the cardiorespiratory system?
- 3) What are the components and role of the musculoskeletal system?
- 4) How is technology used to inform us about the musculoskeletal system?
- 5) What are the shortterm effects of exercise on the cardiorespiratory system?
- 6) What are the shortterm effects of exercise on the musculo-skeletal system?
- 7) What are the longterm effects of exercise on the cardiorespiratory system?
- 8) What are the longterm effects of exercise on the musculo-skeletal system?

Key Terms (continued Topic 1):

- Systolic blood pressure blood pressure when the heart is contracting.
- ✓ Diastolic blood pressure blood pressure when the heart is relaxed.
- ✓ Inhalation breathing in.
- Exhalation breathing out.
- ✓ Intercostal muscles muscles located between the ribs.
- ✓ Diffusion the movement of a gas from an area of high concentration to an area of low concentration.
- ✓ 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.
- ✓ 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.
- ✓ Spirometer machine that produces a spirometry trace of breathing volumes.
- ✓ Vital capacity amount of air expelled from your lungs when you take a deep breath and then exhale fully.
- ✓ Pulse oximeter device used to measure how efficiently oxygen is being carried to the extremities by the heart (blood oxygen level).



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.
- ✓ ROM range of movement.

Key Terms (continued Topic 2):

- ✓ 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.

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

Key Terms:

- ✓ Fast twitch fibres muscle fibres that contract quickly and/or with high force; used during high-intensity 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.
- ✓ 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.
- ✓ Heart attack medical emergency in which the supply of blood to the heart is suddenly blocked.

Religion
Peace + conflict

Big Questions

1. Is it acceptable to use violence?

Year: 10

Term: 2

- 2. Should we forgive others?
- 3. Are there any universal laws?

Is nuclear war acceptable?

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. 29

Year: KS4

Topic: HTS Unit 3

Big Questions

- Where was HTS
 originally performed?
- What is Verbatim Theatre?
- What style of performance is HTS Original performance?
- What is anorexia?
- What are the 4 main types of stage?
- What are some appropriate rehearsal techniques for HTS
- How should I plan my time in the exam?

GCSE DRAMA COMPONENT 3 KNOWLEDGE ORGANISER Hard to Swallow was originally performed by the Oaklands Youth Theatre at the Edinburgh Festival August

1988.

Mark Wheeller's play uses the words from Catherine's diaries and also of those most closely involved and affected. This is known as Verbatim Theatre. The play has 31 characters in all: 6 female, 3 male and 22 characters of either sex. The main characters are: **Catherine Dunbar** John Dunbar (Catherine's father), Maureen Dunbar (Catherine's mother) Simon Dunbar (Catherine's older brother) Anna Dunbar (Catherine's younger sister).

Hard To Swallow by Mark Wheeller

Written in 1989 Main Themes- High expectations, family, anorexia, Death, loss Unit 3 Interpreting Theatre: Worth 40% of overall grade

Structure & Style: It is based on the true story of a girl called Catherine Dunbar who suffered from Anorexia.

The play was adapted from the book 'Catherine' by Maureen Dunbar. It is a mix of Abstract stylised scenes and naturalistic scenes and the stage directions will clearly state the intended style for each scene. There are stylised and physical theatre scenes. The play is teaching the audience about anorexia.

What is Anorexia Nervosa?

Anorexia nervosa – often simply called anorexia – is a serious medical and mental health condition that can be lifethreatening without treatment.

Some of the more common anorexia symptoms include:

- An obsessive fear of weight gain
- Refusal to maintain a healthy body weight
- Distorted body image
- Restricting caloric intake
- Purging calories consumed

Anorexia nervosa is the most deadly mental illness, with a higher mortality (death) rate than any other mental illness. Due to this complexity, this condition requires comprehensive anorexia treatment from an experienced, multidisciplinary approach to include medical and psychiatric stabilization, nutritional intervention and psychological support.

Anorexia and co-occuring issues

Anorexia often occurs alongside other mental illnesses, including:

- Depression
- Anxiety disorders
- Mood disorders
- Personality disorders
- Obsessive compulsive disorders
- Substance abuse

Rehearsal techniques:

Hot seating – answering questions in character Improvisation – making up a new scene, but playing your character in the play.

Conscience alley – The cast makes two lines and one actor walks down the middle, listening to advice. **Character-based drama**

game – e.g. park bench Thought tracking – saying what your character would be thinking at any moment. A vocal or physical warm up

- to prepare the actor for the scene Role on the wall – a drawn

Always read the stage directions for the scene you are writing about. Most of the information and even ideas on character or staging will be in the stage directions

Stages Proscenium Arch/Endon Traverse Thrust In the round

Original staging conditions -Downstage left was the meal table with cutlery and white plates and 5 chairs Downstage right was Catherine's bedroom desk At the back across the middle was a raised area Catherine's face was painted white to show the difference after she was sent home from school. It was usually performed end on.



Timing breakdown for exam questions

10 min read of script and questions 2 marks = 2 mins 3 marks = 4 mins 4 marks = 5 mins 6 marks = 9 mins 15marks = 18 mins

Key Terminology

Costume colour, fabric, time-period, texture, style, fit, worn, torn, material Words to describe movement defined, fluid, erratic, smooth, open, closed, naturalistic, non naturalistic, graceful, exaggerated, mimed, energetic. refined Words to describe voice tone, pitch, pace, pause, accent, inflection, volume, emphasis, intonation, articulation, projection Lighting angle, position, intensity, coloured - gel, profile spot, gobo, floodlight, shadow, uplighting.

Sound and Music tempo, pitch, tone, rhythm, atmosphere, volume

BIG QUESTIONS How does the lighting contribute to the audience's understanding of the choreographic intent of Infra? How does the costume contribute to the audience's understanding of the choreographic intent of Infra? How does the set design contribute to the audience's understanding of the choreographic intent of Infra?	Choreographer: Wayne McGregor Performed by: The Royal Ballet Performance: Originally performed on 13 Nov Dancers: 12 – 6 male, 6 female / brief appear Duration: 28 minutes Dance Styles: Contemporary Ballet McGregor's dance style is distinctive for its sp hyperextended movements that push dancers Structure: solos, duets and ensembles with m squares of light and a crowd surges across the	vember 2008 at The Royal Opera House, London rance of a crowd beed and energy and for the dynamic, angular, sinuous and s to physical extremes. nany arresting moments, for instance 6 couples dance duets in six e stage, unaware of one woman's private grief.
How does the music contribute to the audience's understanding of the choreographic intent of Infra? How does the choreographic approach support our understanding	 Choreographic Intent: Human relationships Seeing below the surface of things Infra is about seeing below the surface of 	 Choreographic Approach: Showing a phrase and dancers adapt or copy Task setting Teaching movement to selected dancers
of Infra? How does the aural setting support our understanding of Infra? How does the choreographic content support our understanding of Infra?	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	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
How does the structure support our understanding of Infra? How does the dance style support our understanding of Infra?	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	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.
Why has the choreographer made the decisions regarding each component? What is the impact of that decision?	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	 Stimulus: 'Infra' means below in Latin Life beneath the surface of a city The Waste Land poem: TS Eliot The London Bombings

let the audience make their own selections.

Lighting:

- Different lighting for each section
- white wash with blurred edged, mid intensity, downstage.
 Upstage in darkness. 2: white wash opens out upstage
 green wash in ellipse shape upstage: blurred edges 4: 6
 rectangles of white light in a line on the floor 5: orange/amber
 wash downstage with blurred edges. 6: paler amber/yellow
 wash across full stage 7: low intensity blue sidelights then
 white sidelights only for crowd 8: white follow spot, stage in
 darkness
- Lighting design by Lucy Carter
- The lighting, which relates closely to the structure, lights the width of the stage and often focuses downstage.
- Occasionally dancers are lit by shafts of light and at one point 6 rectangles of light frame 6 duets
- Colours are used to highlight different sections

Staging and Set:

- Black box set
- Large LED screen hung upstage. White figures walk across screen
- Performance environment: proscenium arch
- No props
- No set
- Emptiness of stage creates large stage space
- Complements lighting, music and costume

Number of Dancers:

12: 6 male, 6 female + crowd in Section 7

Costume:

- 10 out of 12 dancers wear tight black lycra shorts and a variety of different tops; vests, long sleeved, t shirt, thin straps
- All tops are grey, black and white, however, 1 is flesh coloured
- Pointe shoes (females) and ballet shoes (males)
- 2 dancers different: Female black mini skirt and white crop top / Male long black trousers and bare chest
- Costume shows stimulus Colour palette is urban, supporting the city idea stated in the stimuli.

Aural Setting:

- Soundscape fused with violin and piano
- Morse code, radio static, muffled speech, train whistles
- Violin/piano: brisk melodies often with rapid notes that run along
- Section 5 male solo is different: thundering, booming sounds with rumbling effects
- Contrast in Section 7 (trio). Soft and sorrowful piano melody

Homework Links

VLE – video links

https://www.roh.org.uk/ productions/infra-bywayne-mcgregor



Key Vocabulary

Costume Lighting Set design / Physical Setting Accompaniment Choreographic intent Choreographic approach Stimulus Artistic intention Contribution Enhances Highlights

Year: 10 Term: 2

BIG QUESTIONS

Can you identify and offer specific movement examples of the 5 basic body actions?

How do expressive skills contribute to the overall performance of a piece of dance?

How do physical skills contribute to the overall performance of a piece of dance?

What is the difference between mental skills for process and mental skills for performance?

How might a dancer improve their expressive skills?

How can a physical skill be improved over time?

Physical Skills: aspects enabling effective performance

Posture – The way the body is held

Alignment – Correct placement of body parts in relation to each other
Balance - A steady or held position achieved by an even distribution of weight
Coordination – The efficient combination of body parts
Control – The ability to start and stop movement, change direction and hold a shape efficiently
Flexibility - The range of movement in the joints (involving muscles, tendons and ligaments)
Mobility – The range of movement in a joint; the ability to move fluently from action to action
Stamina – Ability to maintain physical and mental energy over periods of time
Extension – Lengthening of one or more muscles or limbs
Isolation: an independent movement of part of the body

Expressive Skills: aspects that contribute to performance artistry and that engage the audience.

Projection – The energy the dancer uses to connect with and draw the audience in
Focus – The use of the eyes to enhance performance or interpretative qualities
Spatial awareness – Consciousness of the surrounding space and its effective use
Facial expressions – use of the face to show mood, character or feeling
Phrasing – The way in which the energy is distributed in the execution of a movement phrase
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

Mental Skills: skills in preparation for a performance

Systematic repetition - repeating something in an ordered way

Mental rehearsal – thinking through or visualising the dance

Rehearsal discipline – attributes and skills required for refining a performance – effective use of a rehearsal and time

Planning of rehearsal – organisation of when to go over material

Response to feedback – implementing changes and making improvements based on feedback/opinion given to you

Capacity to improve – willing to make changes and better, relearn, implement or adapt to make something better

Mental Skills: skills needed during a performance

Movement memory – the automatic recall of learned movement 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

Technical Skills: the accuracy of content

- Action Content; 5BBA, use of different body parts
- Spatial Content; size, direction, level, pathway
- **Dynamic Content**; flow, speed, force
- **Relationship Content;** lead and follow, mirroring, action and reaction, accumulation, complement and contrast, counterpoint, contact, formations
- Timing Content
- Rhythmic Content

The Five Basic Body Actions: 5BBA Jump, Turn, Travel, Stillness and Gesture Can you define each of the 5 basic body actions?

What is the overall impact of technical skills in a performance?

What is the acronym to remember physical skills/expressive skills/technical skills and mental skills?

Homework Links

https://www.aqa.org.uk /resources/dance/gcse/ dance/teach/subjectspecific-vocabulary

Key Vocabulary

You must be able to identify and define <u>ALL</u> vocabulary listed.

You must be able to distinguish what category each skill falls under

EG: strength is a physical skill NOT a mental skill

BIG QUESTIONS

How can a motif be developed through action content?

How can a motif be developed through spatial content?

How can a motif be developed through dynamic content?

How can a motif be developed through relationship content?

Can you identify and define each content category?

What is action content?

What is dynamic content?

What is relationship content?

What is spatial content?

What is rhythmic content?

Technical Skills: These include accuracy of action, timing, dynamic, rhythmic and spatial content and the reproduction of movement in a stylistically accurate way. There are 6 technical skills. Each category is followed by the word 'content'.

- 1. Action content
- 2. Dynamic content
- 3. Spatial content
- 4. Relationship content
- 5. Timing content
- 6. Rhythmic content

Action Content: the movement

<u>A range of action content must be used in your practical work.</u>

You must show variation of the 5 Basic Body Actions; travel, turn, gesture, stillness and jump

You may choose to develop a motif through action content using the checklist below.

- Adding an action to a phrase
- Taking an action away
- Repeating an action

•

•

- Performing an action on a different body part
 - Re-order motif

Example:

<u>Motif</u> = jump, turn, seat roll, reach arms to ceiling, fall <u>Motif developed</u> = jump, jump, seat roll, reach arms to ceiling, fall handstand (jump repeated, turn taken away, new action added) Dynamic Content: how an action is performed <u>A range of dynamic ontent must</u> be used in your practical work.

Fast/slow – **speed** Sudden/sustained – **execution** Acceleration/deceleration – **tempo** Strong/light – **force** Direct/indirect – **route** Flowing/abrupt - **flow**

A range of dynamics must be included in your practical work. When describing a movement always refer to a dynamic.

Example:

- jump slowly
 - abruptly turn to face the front and then reach your arms out to the sides in a strong motion

Rhythmic Content: repeated patterns of sounds or

movements

<u>A range of rhythmic content must</u> <u>be used in your practical work.</u>

Relationship Content: with who the action is

performed

<u>A range of relationship content must be used in your</u> practical work.

Mirroring – reflecting the actions of another dancer as if there is a mirror line **Example:** dancer 1 extends right arm whilst leaning to the right but dancer 2 extends left arm to the left

Action and reaction – a dancer responds to the action of another dancer's action

Example: dancer 1 elbows to left, dancer 2 falls to floor after dancer 1 has performed their action

Accumulation – the movements are added to existing movements in a successive manner Example: A, AB, ABC = jump, jump + turn, jump + turn + slide

Complementary – perform actions or shapes that are similar but not exactly the same as another dancer's actions

Example: dancer 1 performs seat roll whilst dancer two performs an elevated turn

Contrast – movements or shapes that have nothing in common **Example:** fast dynamics of sharp elevated actions vs slow fluid arm gestures

Counterpoint – when dancers perform different phrases simultaneously **Example:** floor phrase in one place vs elevation

Contact – a moment of physical contact which could be in the form of a counterbalance, touch or lift **Example:** fan lift, hand on shoulder, and sacrifice lift

Formations – where the dancers stand in the space **Example:** zig zag, circular, vertical line, diagonal line, horizontal line, cluster, sporadic

Spatial Content: where an action is performed A range of spatial content must be

used in your practical work.

Pathways; circular, linear, diagonal, zig – zag

Levels; floor work, mid-level, standing, elevation

Direction; left, right, front, back, diagonal front, diagonal back

Size of movement; small, medium and large

Spatial design; upstage, centre stage, downstage, stage right, stage left

You may choose to develop a motif through spatial content using the checklist above.

Example: Change of levels Version 1: Reach right arm to ceiling, left arm up to ceiling whilst jumping in the air. Version 2: The dancer could kneel and perform the same arm actions.

<u>**Timing Content:**</u> The use of time or counts when matching movements to sound and/or other dancers

<u>A range of timing content must be</u> used in your practical work.

Homework Links

https://www.aqa.org.uk /resources/dance/gcse/ dance/teach/subjectspecific-vocabulary

Key Vocabulary

You must be able to identify and define <u>ALL</u> vocabulary listed. You <u>MUST</u> be ale to give movement examples of each skill listed.

Business Stakeholders

have different interests in the

business?

BIG Internal or Stakeholder Effects QUESTIONS Internal stakeholders external People with an interest in and who work in the business See profit as their main aim so will want to Can you list the Internal Owners run the business cost effectively **External stakeholders** internal *People with an interest in but* stakeholders of a Employees want to be treated well and who are outside of the business business? Employees receive a fair wage. Without this they Internal could go on strike Can you list the external Customers want to receive a good service Different stakeholders stakeholders of a and pay a fair price. Without this they Customers External may want different things business? could go to competitors from a business, which Suppliers want to be paid on time. How is the local Suppliers Delayed payments could mean the External means that there could be community supplier refuses orders conflict between them. impacted if a The government wants businesses to business is Overcoming a conflict will succeed however an increase in income External Government performing well? tax means less money for customers often require negotiation Can you explain and willingness to The local community will want jobs in their Local why different area however they could protest against a External compromise community stakeholders new business development

Which stakeholder type has the most influence on the activities and objectives of a business?

Business Business Growth

Year 10 Term: 2

BIG QUESTIONS

- Can you explain how different businesses might grow in different ways?
- Can you list different types of organic and external growth?
- Can you explain how a business can increase market share?
- Which do you think is the riskiest type of business growth?
- Why do mergers sometimes not work?

Organic growth Internal growth using own resources i.e. opening more shops Merger

Two or more businesses agreeing to join together **Takeover** One business takes control of another **Horizontal growth** Two businesses in the same production sector *joining together* Vertical growth Two businesses in different production sectors joining together

Horizontal – 2 businesses that join from the same industry but do not need to be identical. The bigger business will control more of the market. Discounts could be more likely from suppliers as its likely more goods will be purchased. Difficulties could be how the business is controlled and whether that is effective. Sometimes it's easier to control 2 small businesses rather than one large business.

<u>Vertical</u> – merge with (or takeover) a business that supplies it with goods (backwards vertical growth) or with a business that it supplies (forwards vertical growth). A shop selling wooden furniture may merge with the manufacturer of the furniture

Diversification – no real connection with the other business. For example, a furniture maker taking over a pizza delivery shop. Benefit is spreading the risk at the same time as growing. The risk is spread because if people stop buying furniture from them they have the back up of their other business in a different industry. Any business relying on a single product or service is at increased risk.

Homework: Using the information about Pets at Home, explain how the business has grown organically. You must include key information from the case study and write in full sentences Business Studies GCSE

BIG QUESTIONS	Definition - Is there a term in the question that can be defined? (if no, do not force a definition, go straight into Application.)					
 How do I answer the 9 mark GCSE question? 	Example – Analyse the effectiveness of a partnership as a form of business ownership? 'A partnership is when two or more people come together to start a business'					
	 Apply your understanding/knowledge Application - Link the answer to the case study (A02) Example - One advantage of a business taking the form of a 					
THINK DACE!	 What are the <u>advantages</u>? Make sure to <u>explain</u> all knowledge applied <i>partnership would beThis</i> <i>is an advantage because</i> 					
Definition	 Are there <u>disadvantages</u>? Example – However, a Counter-argument Link answer to counteract the advantages. (A02) disadvantage of this business (A03a) No disadvantages? What would ownership would beThis 					
Application	happen to the business without it? is a disadvantage because					
Counter-argument	Evaluation (A03b) - Summarise the advantages against the disadvantages! State your opinion, make sure you explain why you have come to this decision? Relate back to the business and the effects it would have.					
E valuation	Example – In conclusion, I think a partnership is an effective form of ownership because 40					

Year 10 & 11 Term: Whole Year

Big Question – How do I achieve A02 (application) marks?

A number of questions in the exam will ask you a direct question about a particular business from the case study. You need to make sure that you always <u>APPLY</u> your knowledge to that particular business in your answer. This will allow you to achieve an additional AO2 mark (APP) every time.

Here's an example....

Question - Analyse one way in which <u>Redrow Homes</u> could use Group Activities when selecting new apprentices? (3 marks)

Answer 1 - Redrow Homes could use group activities as it would allow them to see how well potential apprentices work together on a task. This will highlight if they have good communication skills. (Only 2 marks have been awarded here as the answer was not applied specifically to the business).

Answer 2 - Redrow Homes can assign a task where all the applicants work together 🖌 to solve a problem relating to a scenario on a building site. This allows the interviewers to observe candidates' interpersonal skills (3 marks have been awarded as the answer is applied to Redrow Homes and a scenario using a building site).

Don't forget the TESCO TEST!



Remember that the application mark (A02) is more than just writing the name of the business. If you can put TESCO in your answer and it still makes sense, you have not specifically applied it to the business from the case study.

TESCO

*<u>Answer 2</u> would not make sense if you replaced Redrow Homes with Tesco. This is because the answer specifically talks about a building site. Application mark secured!





Media: Analysing Media Texts

Big Questions

What is a genre? What is a sub-genre? What is a hybrid genre? How does genre use codes and conventions? How does genre link to magazines? What does narrative mean? What does linear and non-linear narrative mean? What are common narrative structures? What are enigma codes and action codes? What is intertextuality? How do we see narrative in magazines? Why do different audiences react differently to media texts?

What is representation? What are some of the key terms? What does mediation of content

- mean?
- Why does it matter?

What techniques do media

producers use to encode meaning?

Genre

Media texts are grouped together based on similar characteristics. This is probably most easily seen with moving image texts, such as film.

Sub-genres

Werewolf films are a sub-genre of horror. This means they are a recognisable type of horror film.

Hybrid Genres

Hybrid genres are where two, or more, genres are joined together. In the example below the film uses the conventions of horror and of comedy to create a Horror/Comedy film. **Narrative-** all media products tell a story, even magazines!

An **enigma code** is something in a media product that makes the audience question the story. The opposite to this are action codes, these are elements of the narrative that move the story on (basically when something happens).

Intertextuality- Some media products remind you of others, this is intertextuality!

Audiences can read a text different ways:

Preferred- How they want you to see it Negotiated- Putting your own thoughts in

Oppositional- Taking it the opposite way it was intended

Representation is the way people, places or ideas are presented in the media- all representations are constructed by the media

Year 10 Term 2



MFL – French Mod 4 – De la ville à la camp	oagne – How do I talk al	bout my local area?		Year: 10 Term: 2
BIG QUESTIONS 1) Où habites-tu?	Qu'est-ce qu'on peut faire? On peut aller à un match de foot aller au cinéma faire du cheval faire du ski faire du snowboard	Qu'est-ce qu'on peut faire?What can you do?On peutYou canfaire des promenadesaller à un match de footgo to a football matchfaire les magasinsaller au cinémago to the cinemase baigner dans la merfaire du chevalgo horse-ridingse détendre sur la plagefaire du skigo snowboardingvisiter le châteaufaire du snowboardgo snowboardingvisiter les muséesDans ma ville/mon villageIn my town/village there is/areun supermarchéun centre de loisirsa castleune gare (SNCF)un marchéa marketune mosquéeun muséea museumdes restaurantsun parc/jardin publica parkdes restaurantsun stadea stadiumII n'y a pas de		go for walks go shopping swim/bathe in the sea relax on the beach visit the castle visit the museums
 2) Qu'est-ce qu'on peut faire à? What can you do in? 3) Qu'est-ce que tu penses de ta ville? 	Dans ma ville/mon village Dans ma ville/mon village, il y a un bureau de poste/une poste un centre de loisirs un château un marché un musée un parc/jardin public un stade			a supermarket a library a church a (railway) station a mosque some hotels some restaurants There isn't a/aren't any
 What do you think about your town? 4) Qu'est-ce qu'il y a dans ta ville? What is in your town? 	Les directions Où est le/la/l'? / Où sont les? Pour aller au/à la/à l'/aux? Va/Allez tout droit. Tourne/Tournez à gauche/droite. Prends/Prenez la première/ deuxième/troisième rue à gauche/droite.	Directions Where is the? / Where are the? How do I get to the? Go straight on. Turn left/right. Take the first/second/third street on the left/right.	Traverse/Traversez le pont/la place. Descends/Descendez la rue. C'est près/loin? C'est tout près/assez loin.	Cross the bridge/square. Go down the street. Is it near/far? It's very near/quite far.
 5) Pour aller au / à la? How do you get to the? 6) Qu'est-ce qu'il y a dans ta région? What is in your region? 7) Quelle est ta région préférée? What is your fayourite region? 	Qu'est-ce qu'il y a dans ta région? Dans ma région, il y a un lac un port de pêche une rivière/un fleuve des champs des collines des fermes des forêts des stations de ski des vignobles	What is there in your region? In my region there is/are a lake a fishing port a river fields hills farms forests ski resorts vineyards	En Bretagne, il y a un beau château une belle cathédrale des villes historiques de vieilles maisons de vieux bâtiments On peut faire de la voile faire des randonnées à vélo	In Brittany there is/are a beautiful castle a beautiful cathedral historical towns old houses old buildings You can go sailing go for bike rides
	Le meilleur le meilleur climat la meilleure équipe de football le plus beau paysage les plus belles plages le plus long fleuve la plus longue piste de ski	The best the best climate the best football team the most beautiful countryside the most beautiful beaches the longest river the longest ski slope	la plus haute tour le musée le plus populaire la région la plus historique les stations de ski les plus populaires les monuments les plus célèbres	the highest tower the most popular museum the most historical region the most popular ski resorts the most famous monuments

M M	FL – French od 4 – De la ville à la cami	pagne – How do I talk	about mv local area?	0	Year: 10 Term: 2
			Touclet Information		_
	BIG QUESTIONS	(Le château) est ouvert quels jours	On which days is (the castle) open?	Avez-vous un dépliant/un plan de la ville?	Do you have a leaflet/a map of the town?
		C'est ouvert (tous les jours/tous les	It's open (every day/every day except Sundays).	Où est-ce qu'on peut acheter des billets?	Where can we buy tickets?
1.	Quels sont les avantages de ta	Ouels sont les horaires d'ouverture?	What are the opening hours?	la durée	duration
	région?	C'est ouvert de (9h) à (17h).	It's open from (9 a.m.) until (5 p.m.).	les tarifs	prices
	Minet are the advantages of	C'est combien, l'entrée?	How much is the entrance fee?	gratuit	free
	what are the advantages of	ça coûte pour les adultes	It COSTS FOR AGUITS AND	accessible aux personnes	accessible to alsablea people
	your region?	Est-ce qu'il v a un restaurant ou	Is there a restaurant or a cafeteria?	les chiens sont acceptés	dogs are welcome
		une cafétéria?			9
2.	Quels sont les inconvénients?	La temps/La météo	The weather/		
	What are the disadvantages?	Le temps/ ca meteo	The weather forecast		
	what are the abdavantages.	Ouel temps fait-il?	What is the weather like?	Il y a du vent.	It's windy.
_		Il fait beau.	The weather is good.	Il y a un orage.	There's a storm.
3.	Ta ville a change?	Il fait mauvais.	The weather is bad.	ll pleut.	It's raining.
	Has your town changed?	Il fait chaud.	It's hot.	Il neige.	It's snowing.
		Il fait froid.	ITS COLO.	pres de la Manche	on the Atlantic coast
л	PAST: C'était comment avant?	It y a du brouillard	It's foggy	sur la côte méditerranéenne	on the Mediterranean coast
4.	Athen and the back and	it ya du bioditara.	10 1066).		
	what was it like before?	Les projets	Plans		
		aujourd'hui	today	aller a la piscine (en plein air)	go to the (open-air) swimming
5.	FUTURE: Qu'est-ce que tu	demain	the day after tomorrow	faire un barbecue	have a barbecue
	voudrais faire à?	ce week-end	this weekend	faire un pique-nique	have a picnic
	What would you like to do in 2	cette semaine	this week	faire de la luge	go tobogganing
	what would you like to do m?	S'il fait beau/mauvais (etc.), on va	If the weather's good/bad (etc.),	rester à la maison	stay at home
			we're going to	regarder la télé	watch TV
6.	C'est combien, l'entrée?	aller à la pêche	go fishing		
	How much is entry?	Ville de rêve ou ville de cauchemar?	Dream town or nightmare town?		
		C'est	It's	trop de bruit	too much noise
7.	Quel temps fait-il?	très animé	very lively	toujours des déchets par terre	always rubbish on the ground
	What is the weather like?	trop tranquille	too quiet	Il n'y a rien pour les jeunes.	There is nothing for young people.
		sale	airty	Il n'y a pas grand-chose a faire.	There is no pedestrian precinct
0		triste	sod	ll n'y a plus de cinéma.	There is no longer a cinema.
ō.	FOTORE: Qu'est-ce que tu vas	Ce n'est jamais propre.	It's never clean.	Le cinéma est fermé.	The cinema is closed (down).
	taire si?	Ilya	There is/are	un club pour les jeunes	a youth club
	What are you going to do if?	de bons transports en commun	good public transport	les poubelles	bins
		seulement des maisons et une	only houses and a church	en banlieue	in the suburbs
		eglise	too much traffic	le quartier	neighbournood, aistrict, part of town
		dop de circulation	too much truffic		

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MFL – Spanish

Mod 4 – Intereses e influencias – *How do I talk about interests and influences?*

ר

Term: 1

 BIG QUESTIONS 1) ¿Qué haces en tus ratos libros? Wha do you do in our free time? 2) ¿Qué haces con tu dinero? 	Ir al cine, al teatro, etc. ¿Tienes ganas de ir a un festival / a un espectáculo de? al cine / al teatro / al circo? esta tarde? esta noche? mañana / el viernes? ¿Qué ponen?	Going to the cinema, theatre, etc. Do you fancy going to a festival / to a show? to the cinema / theatre / circus? this afternoon / evening? tonight? tomorrow / on Friday? What's on?	Es una película / obra de ¿Cuánto cuesta? Son euros. ¿A qué hora empieza / termina? Empieza / Termina a las Dos entradas para, por favor. Para la sesión de las No quedan entradas.	It's a film / play. How much does it cost? It's euros. What time does it start / finish? It starts / finishes at Two tickets for, please. For the showing / performance. There are no tickets left.
What do you do with your money? 3) ¿Qué deportes haces?	Los modelos a seguir Mi modelo a seguir es Admiro a porque ayuda a organizaciones benéficas	Role models My role model is I admire because he/she helps charities	Es No es ni ni ambicioso/a / egoísta famoso/a / fuerte generoso/a / optimista	He/She is He/She is neither nor ambitious / selfish famous / strong generous / optimistic
What sports do you do?	lucha por / contra la pobreza / los derechos humanos	he/she fights for / against poverty / human rights	rico/a / simpático/a trabajador(a) / valiente Ha batido muchos récords. Ha ganado muchos premios.	rich / nice hardworking / brave He/she has beaten lots of records. He/she has won lots of prizes / awards.
4) ¿Qué sueles hacer?	tiene mucha determinación	he/she has a lot of determination	Ha hablado abiertamente de	He/she has spoken openly about
What do you normally do?	trabaja en defensa de los animales usa su fama para ayudar a otro	he/she works in defence of animals he/she uses his/her fame to	Ha hecho varias películas. Ha recaudado más de Ha sufrido varias enfermedades.	He/she has made several films. He/she has raised more than He/she has suffered several illnesses.
5) ¿Quién es tu cantante favorito?		help others	Ha superado sus problemas.	nrohlems.
Who is our favourite Singer?				proteins
6) ¿Tocas un instrumento? Do you play an instrument?	El deporte Antes era Ahora soy (bastante / muy) deportista miembro de un club / un equi	Sport Before I used to be Now I am (quite / very) sporty po a member of a club / a team	atletismo / ciclismo equitación / escalada gimnasia / judo kárate / natación patinaje sobre hielo	athletics / cycling horseriding / climbing gymnastics / judo karate / swimming ice skating
	aficionado/a de	a fan of	piragüismo	canoeing
7) PAST: ¿Qué deportes hacías?	un(a) fanático/a de	a fanatic	Ya no (juego)	(I) no longer (play)
What sports did you used to do?	Juego al Jugué al Jugaba al	I play I played I used to play	Entreno Ayer / Esta mañana La temporada pasada	I train Yesterday / This morning Last season
8) ¿Eres aficionado/a de un	baloncesto / balonmano	basketball / handball	jugué un partido	I played a match
equipo?	hockey / ping-pong	hockey / table tennis	marque un gol gané / ganamos el campeona	I SCORED a goal
Are you a fan of a team?	rugby / tenis / voleibol Hago Hice Hacía	rugby / tennis / volleyball I do I did Lused to do	Mi jugador(a) favorito/a es Lo mejor fue cuando batió el récord ganó / marcó	My favourite player is The best thing was when he/she beat the record be/che wen / scored

MFL – Spanish Mod 4 – Intereses e influenc	c ias – How do I talk ab	out interests and influe	ences?	Year: 10 Term: 1
BIG QUESTIONS	La tele (No) soy teleadicto/a Veo la tele horas al día Mi programa favorito es un concurso	I'm (not) a TV addict I watch TV hours a day My favourite programme is a game/auiz show	Me gustan las comedias No me gustan las noticias Es / Son aburrido/a(s) adictivo/a(s)	I like comedies I don't like the news It is / They are boring addictive
 ¿Eres teleadicto? Are you a big fan of TV? 	un programa de deporte un reality un documental una telenovela una comedia una serie policíaca	a sports programme a reality TV show a documentary a soap a comedy a crime series	divertido/a(s) entretenido/a(s) tonto/a(s) informativo/a(s) emocionante(s) interesante(s)	fun entertaining silly informative exciting interesting
2. ¿Te gusta las películas extranjeras? Do you like foreign films?	Las películas una película de amor una película de terror una película de acción una película de aventuras	Films a love film a horror film an action film an adventure film	una película de animación una película de ciencia ficció una película de fantasía una película extranjera	an animated film a sci-fi film a fantasy film a foreign film
3. PAST: ¿Has visto el nuevo…? Have you seen the new…?	Nacionalidades americano/a británico/a	Nationalities American British	español(a) francés / francesa	Spanish French Walch
4. ¿Cómo es? How is it?	griego/a italiano/a mexicano/a alemán / alemana	Greek Italian Mexican German	gales / galesa inglés / inglesa irlandés / irlandesa japonés / japonesa	English Irish Japanese
 5. ¿Cómo prefieres ver las películas? How do you prefer to watch films? 6. ¿Tienes ganas de ir? Do you fancy going to? 	Temas del momento He compartido He comprado He descargado He gastado He jugado He jugado He leido He perdido He visto el nuevo álbum / libro de la puevo acanción / película de	Trending topics I have shared I have bought I have downloaded I have spent I have spent I have done I have played I have read I have lost I have uploaded I have seen / watched the new album / book the new song / film	Cuenta la historia deIt tellsCombina el misterio con la acción.It combEl final / La banda sonoraThe enues bueno/a / malo/ais goes feliz / triste / raro/ais haLos actores / Los gráficosThe aciLos efectos especialesThe spiLos personajesThe chuLas animaciones / cancionesarebuenos/as / estupendos/asggdecepcionantesdi	the story of bines mystery with action. ding / The soundtrack od / bad ppy / sad / strange cors / The graphics ecial effects aracters imations / songs od / brilliant sappointing
7. ¿Quién es tu modelo a seguir? Who is your role model?	¿Qué música has escuchado esta semana / este mes / este año?	What music have you listened to this week / this month / this year?	guapos/as / interesantes guapos/as / interesantes guapos/as / impresionantes in locos/as / originales m	ood looking / interesting ritating / impressive ad / original
8. PAST: ¿Qué hizo? What did he/she do?	En el cine o en casa? Prefiero ir al cine porque Prefiero ver las pelis en casa porque el ambiente es mejor. la imagen es mejor en la gran pantalla. los asientos no son cómodos.	At the cinema or at home? I prefer going to the cinema because I prefer watching films at home because the atmosphere is better. the picture is better on the big screen. the seats aren't comfortable.	los otros espectadorestheme molestan.Ias entradas son caras.thelas palomitas están ricas.thehay demasiadas personas.theme encanta ver los tráilersI lowpara las nuevas pelis.tl(No) estoy de acuerdo.I (don')	other spectators annoy me. tickets are expensive. popcorn is tasty. e are too many people. e watching the trailers for ne new films. t) agree.

Health and Social Care Component 1 Human Lifespan Development			Year 10 Term: 2
BIG QUESTIONS > How do factors affect our growth and development?	<u>Life Stages</u>		
	Infancy	0-2 years	A rapid increase in PIES growth and development occurs at this stage but individuals are dependent on carers.
 What do I need to do to ensure all Pass, Merit and Distinction criteria is met? What is a life event? Where do we aim? Where do we aim? 	Early childhood	3-8 years	Physical skills rapidly develop and are mastered and children become more independent.
	Adolescence	9-18 years	Huge physical and emotional changes occur in this life stage as individuals begin puberty and start to form a wide range of relationships.
	Early adulthood	19-45 years	Peak physical maturity occurs here. This life stage often has a number of major life events, such as marriage and children.
	Middle adulthood	46-65 years	Usually in this life stage adults change emotionally and socially due to the ageing process beginning.
	Later adulthood	65+ years	All types of development can decline in this life stage (e.g. reduction of social circles and cognitive ability) as people become physically weaker
AT THE LARGET!			

Health and Social C	are	Year 10	0		
Component 1 Human	Lifespan Development	Term:	1		
BIG QUESTIONS	Types of development				
How do factors affect our growth and development?	Physical – Changes to the body such as growth and puberty. Gross motor skills a large muscles of the body and fine motor skills using the small muscles of the body and fine motor skills us	ising the ody.			
	Intellectual – The development of cognitive ability, including abstract thinking, solving, memory and language skills – e.g. remembering how to spell.	problem			
> What do I need to do to ensure all Pass, Merit	Emotional – Developing and coping with feelings about ourselves and towards ot improving self-confidence.	hers. E.g.			
	Social – The ability to form friendships and relationships and learn to be independent. E.g. making friends at school.				
and Distinction criteria is met?	Factors affecting development				
	Physical – illness, inherited diseases and conditions that can affect developmen	t.			
> What is a life	Lifestyle – Choices by an individual which can affect growth and development. E.g. smoking				
event?	Emotional – Learning how to cope with feelings and deal with relationships. E.g. someone dies	grief wher	l		
	Social – Experiences a person has with other people and the supportive and uns relationships they have with them.	upportive			
	Cultural – Experiences a person has with groups of people, community groups or settings.	in social			
	Environmental – The location, conditions, housing, pollution, environment and am a person lives in.	ount of sp	ace		
	Economic – Economic factors affect the amount of money or income a person ho employment salary, benefits.	15. E.g.			

<u>Homework Links</u>

https://www.simonweston.com/

<u>https://www.youtube.com/watch?v=XjaArH</u> <u>GF/mw</u>

https://www.youtube.com/watch?v=nx71vp 3ceaw

https://www.youtube.com/watch?v=Qx1ym ZFg1gA

Key Words-

Life events- are expected or unexpected events that can affect development

Expected- is a belief that something is likely to happen

Unexpected- long-or short-term changes that is not thought likely to happen

Bereavement- is the process of coming to terms with the death of someone close

Physical events- make changes to your body, physical health or mobility

Relationship changes- impact on informal and intimate relationships

Life circumstances- impacts on day-today life and the choices you make

Adapt-is to adjust to new conditions or circumstances

Respite care- involves temporary care of an individual with ill health to provide relief for their parents or carers

Professional-describes a member of a profession who is trained and skilled in their area of work

Health and Wellbeing Life Events

Accident/injury -an accident is an unexpected event that can lead to an injury. Physical illness - a disease or illness that physically affects the body.

Mental health and wellbeing - keeping the brain and mind functioning normally so a person can complete daily tasks.

Emotional health and wellbeing – forming attachments and feeling secure and content.

Life Circumstances Life Events

Moving house, school or job - a change of location or employment.

Exclusion from education - being removed from school.

Redundancy - let go by employer.

Imprisonment - sent to prison.

Changes to standard of living – an increase or decrease in the level of income and luxuries.

Retirement - finish working altogether.

Relationship Changes Life Events

New relationships - making new friends or romantic partnerships. Marriage/civil partnership - legally getting married to someone else. Divorce/separation - a permanent end to a relationship. Parenthood - becoming a mother or father. Bereavement - the feelings of grief when someone close to you dies.

Types of Support

Emotional support – providing love and care to people, especially when they are upset.

Information, advice, endorsed apps – providing information, help and guidance. **Practical help** – helping people with childcare, cleaning, financially

Child Development COMPONENT 2: Learning through play

BIG QUESTIONS	Learning aim A: Understand how children play RECAPPING Learners must understand that children at different ages and stages of development have different
To Understand the way that children learn through play	 play needs. <u>A1 Stages of children's play</u> Unoccupied play, birth-3 months: movements with arms, legs, hands, feet etc., learning how their bodies move.
 ✓ What are the stages of 	 Solitary play, birth-2 years: a child plays alone, not yet interested in playing with others. Spectator/onlooker play, 2 years: a child watches other children play but does not play with them.
children's play	• Parallel play, 2+ years: a child plays alongside or near others but does not play with them.
 ✓ What are the types of play 	• Associative play, 3-4 years: a child starts to interact with others during play but there is not a large amount of interaction at this stage; a child might be doing an activity related to the children around him, but might not actually be interacting with another child
✓ How can	around him, but hight hot actually be interacting with another child.
children's learning be supported	 Co-operative play, 4+ years: a child interacts fully with others and has interest in both the activity and other children involved, they create their own rules A2 Types of play
through play?	 Learners must understand the different types of children's play that can be offered. Locomotor play - any type of physical activity using gross motor skills - enjoying movement for movement's sake.
BTEC Tech Award CHILD DEVELOPMENT	 Creative play - freedom to explore resources, altering something and making something new, trying out new ideas.
Student Book	• Sensory play - using the senses to explore, to discover the texture and function of things.
	 Imaginative play - when children pretend in some way, act out their experiences or things they have heard about/seen, role play, small world play.
2 4 🔜 🥻	• Symbolic play – using objects, actions or ideas to represent other objects, actions, or ideas.
	• Technological/investigative - use of IT equipment, maths equipment, science equipment.
	Construction - using resources to build or join things, to create something new.

Learning Aim- B: Understand how children's learning can be supported through play

Learners will consider how learning through play can occur during planned activities in the following environments: at home, in day nurseries, school nurseries, preschools, reception school classes, community-based groups, after-school clubs. Learners will need to consider and plan play opportunities and activities for individual children and small groups of children.

B1 Physical play

Learning through physical play:

- spatial awareness eye coordination, foot and leg coordination, hand-eye coordination
- activities to stay healthy
- how to take care of yourself and self-care
- gross motor skills body management, strength, bodily coordination
- fine motor control accuracy and manipulation of objects.

Activities and resources for physical play and learning:

- role play of home-life situations
- food preparation, snack times, handwashing
- bat and ball games
- tricycles, bicycles, sit-and-ride toys
- climbing frames, swings, slides
- creative activities crayons, pens, paint brushes, paper, scissors, plastic needles, threads, beads playdough, sand and water activities
- construction toys
- baby gyms, push along toys, rattles
 Homework

1.1. Design a game the will help a child to grow and learn.

Homework Links

Research from the following websites-

✓ <u>www.education.gov.uk</u>

- http://www.nicurriculum.org.uk/docs/ foundation_stage/learning_through_pl ay_ey.pdf
- https://www.legofoundation.com/en/le arn-how/knowledge-base/what-wemean-by-learning-through-play/
- <u>https://www.familylives.org.uk/advice</u> <u>/early-years-development/learning-</u> <u>and-play/why-play-matters//</u>

Key Terms LA-A

Social Skills-used when interacting with each other

Unoccupied play- a child does not interact with others and makes movements with their body

Solitary play- playing alone

Spectator/onlooker play- watching others play but not playing with them

Parallel play- playing along side of others but not playing with them

Associative play- sharing resources but playing alone

Cooperative play- when children are playing together

Repetition- repeating something

Enhance- increase or improve something

Independent learning skills- being able to think, problem solve and act without an adult helping.

Motivating- a reason to do something

Food Preparation and Nutrition Food Nutrition and Health

BIG QUESTIONS

- What is a diet related illness?
- How can we avoid developing a diet related illness?
- What are the main causes of diet related illness?
- What are raising agents and how do raising agents work?
- What are the 4 types of raising agents?
- Why are raising agents used?

Students will learn the importance of good diet in relation to health.

We will investigate illnesses, their dietary causes and how to avoid these issues throughout the life stages

Food groups from the Eatwell Guide will assist in the understanding of healthy, balanced diets and nutritional needs of different person groups.

Food science investigations in relation to raising agents will be part of students learning.

Year 10

Term 2

Young children

- Protein for growth and development
- Given small, attractive portions of food.
- Introduce **new foods** gradually.
- Avoid fatty and sugary food.
- Calcium and vitamin D for teeth and bones

Adulthood

- Well balanced diet following the Eatwell guide
- Nutrients are especially important.
- Calcium help keep bones and teeth strong, preventing Osteoporosis.
- Vitamin D helps the body to absorb calcium and helps the immune system

Life sta	ges
Toddlers	
Eatwell guide doesn't	
apply.	
High calcium	
Small meals	
Variety of different foods	

Elderly

- Vitamins A, C & E (the antioxidant vitamins)
- Protein to help repair worn out body cells
- Calcium help keep bones and teeth strong, preventing Osteoporosis.
- Vitamin D helps the body to absorb
- Calcium and helps the immune system
- Iron to help the red blood cells
- Vitamin C helps prevent iron deficiency anaemia
- Sodium (salt) can cause high blood pressure if too much is eaten.
- Vitamin B12. to help prevent memory loss.
- Fibre. To prevent constipation and bowel cancer

Teenagers

- Protein for growth and development
- Risk of obesity and poor skin- eat 5 a day to help Good supply of iron (especially for girls).
- Lots of starchy carbohydrates for energy.
- Fibre. To keep the digestive system working.
- Choose low saturated fat.
- **Calcium** help keep bones and teeth strong, preventing Osteoporosis.
- Vitamin D helps the body to absorb calcium and helps the immune system.
- Iron to prevent iron deficiency, anaemia, and keep the red blood cells healthy. Teenage girls need iron due to menstruation.
- Vitamin C. helps the body absorb Iron.
- Vitamin A. for good eye sight. Boys need more due their bigger build
- **B** group vitamins. To release energy from carbohydrates. Boys need more as they are generally more active and bigger.

Homework Links

Illuminate.digital /aqafood/

User name; SABBEYSCHOOL3

> Pass word; Sme138RZ3

Food a fact of life (web site)

BBC Bite size

Key Vocabulary

Research

Life stage

Dietary requirements

: The relationship between diet and health

Foods high in fat, salt and sugar

- These foods are not needed in the diet and should therefore not be eaten very often.
- If you eat these foods and drinks you should eat them in very small quantities.
- Food and drinks which contain a lot of fat and sugar are high in energy.
- You should check the food labels and choose foods which are low in fat, sugar, and salt.

Hydration

- Water, coffee, tea, lower fat milk, and sugar free-drinks all contribute to meeting your needs of six to eight glasses of fluid every day.
- Sugary drinks should be avoided and these should be swapped for sugar-free and nonadded-sugar varieties.
- Fruit juice and smoothies do count, but they are also counted as free-sugars. You should not have more than 150ml of these a day.
- Alcohol also contains a lot of calories and adults should not consume more than 14

Food Labelling

- Labels often show the nutritional information per serving.
- They also show the contribution the food makes to the daily amounts required.
- The use of colour helps you to easily see whether they are high in **saturated fats**, sugar and salt.



Typical values (as sold) per 100g: Energy 966kJ / 230kcal

Cutting down on saturated fat

Reducing the amount of saturated fat eaten can:

- Reduce the risk of heart disease.
- Lower blood cholesterol.

Cutting down on sugar

Reducing the amount of sugar can reduce the risk of:

- Obesity
- Tooth decay.
- When sugar is added to a product or a dish to make them sweeter or more **palatable** it is called free sugar. No more than five per cent of the sugar we eat should come from free sugars.

	Age	Recommended maximum free sugars	Sugar cubes
		intake	
	4-6 years	No more than 19g/day	5 cubes
	7-10 years	No more than 24g/day	6 cubes
2	From 11 years, including adults.	No more than 30g/day	7 cubes.

- Remember, sugary drinks are not needed and we should change these to water, low fat milk or sugar-free drinks.
- Although ingredients lists are required by law on food products, it is sometimes difficult to spot the difference between a free sugar and a not free sugar.

Free sugars		Not free sugars
 Cane sugar Honey Brown sugar Dextrose Fructose 	 Sucrose Maltose Fruit juice concentrate Corn syrup Molasses 	 Sugars found naturally in food: In fresh, dried or frozen fruits and vegetables. In milk, cheese and natural yogurt.
Cutting down on s	alt	

Reducing the amount of salt can:

- Reduce blood pressure
- Reduce the risk of heart disease
- Reduce the risk of a stroke.

Adults should have no more than six grams salt per day and children should have less.

Remember, salt is added to many foods that you buy, so you need to check the labels carefully.

How much food do I need?

- Everyone needs different amounts of energy to maintain a healthy body weight.
- The amount of energy we need depends on many different factors.
- If we do not use all the energy we consume it will be stored as fat.

The government's guidelines for a healthy diet

The government recommendations are to use the Eatwell Guide as a model for healthy eating.

The government has also produced other guidance linked to healthy eating, including:

- Eight tips for healthy eating
- 5 a day campaign.



Application of the eight tips for healthy eating

The eight tips for healthy eating are clearly linked to the Eatwell Guide:

- 1. Base your meals on starchy foods.
- 2. Eat lot of fruit and vegetables.
- 3. Eat more fish aim for two portions a week and one of these should be oily.
- 4. Cut down on saturated fats and sugars.
- 5. Eat less salt adults should eat no more than six grams per day.
- 6. Get active and try to maintain a healthy weight,
- 7. Don't get thirsty– drink plenty of water.
- 8. Don't skip breakfast.

5 a day

This campaign:

- Encourage us to eat at least five portions of fruit and vegetables a day.
- Ensure a variety of vitamins, **minerals**, trace elements and fibre are in the diet.
- Promotes the inclusion of antioxidants and plant chemicals needed for good health.

Major diet-related health issues caused by a poor diet and lifestyle.

There are a number of disease and conditions caused by having a poor diet and lifestyle.

Obesity

The number of people who are overweight or obese in the UK is increasing.

The main cause of being overweight is eating more food than the body requires, so that excess energy is store as fat. Being overweight is unhealthy because it put a strain on the organs of the body. It can cause:

- Heart disease
- High blood pressure
- Diabetes
- Osteoarthritis
- Varicose veins
- Breathlessness
- Chest infections
- Unhappiness
- Low self-esteem
- · May lead to depression.



The relationship between diet and health

Cardiovascular disease

Cardiovascular disease is a term used to describe all different types of diseases of the heart and circulatory system. Blood flow to the heart, brain or body is reduced because of a blood clot or narrowing of the arteries.

Coronary heart disease is one of the main types of cardiovascular disease.



Normal artery

Artery with plaque build-up

Coronary heart disease

In the UK, coronary heart disease (CHD) is a major health problem and one of the main causes of death.

- CHD is linked to the amount of fat in the diet.
- A diet high in saturated fat is also likely to be high in cholesterol.
- Cholesterol is a substance made in the liver and carried in the bloodstream. It can build up and be deposited with other material as 'plaque' on the walls of the arteries.
- Blocked arteries can cause a person to heart attack which, if severe, can cause death.



High blood pressure

To reduce the risk of high blood pressure you should follow the advice given in the Eatwell Guide:

- Eat at least five portions of fruit and vegetables a day
- Eat a varied diet
- Reduce your fat intake
- Eat more starchy carbohydrates.
- Consume mono and polyunsaturated fats
- Reduce your salt intake
- Eat at least two portions of fish a week.

Diabetes

Diabetes is a medical condition where the glucose in the bloodstream is not balanced correctly.

- Glucose is carried in the blood to all body cells to supply them with energy.
- Insulin, a hormone produced by the pancreas, controls the amount of glucose in the bloodstream and stops it getting too high.

There are two types of diabetes:

- Type 1 this is usually diagnosed in children and is caused by the pancreas not producing enough insulin.
- Type 2 diabetes this is usually diagnosed in older people, although there are younger people being diagnosed with this due to a poor diet.

 Meals for diabetes should follow the guidance in the Eatwell Guide and include high-fibre, starchy carbohydrate foods such as potatoes, rice and pasta, but should be low in sugar and sweet



Diverticulitis

- Diverticulitis is a condition which affects the large intestine. It is often linked to having a diet which low in fibre (non-starch polysaccharide or NSP)
- The lining of the bowel becomes inflamed, infected and damaged. Symptoms of **diverticular disease** include pain and discomfort in the abdomen and feeling bloating.

Bone Health (osteoporosis)

- Healthy bones do not break easily.
- Calcium and other minerals are gradually added to bones to strengthen them.
- Our bones are at their strongest between the ages of 20 and 35, when our peaks bone mass is reached.
- If we do not achieve peak bone mass then we are more likely to get osteoporosis. The bones start to lose minerals the bones brittle and break.

You will increase your likelihood of osteoporosis:

- If other people in your family suffer from broken bones genes.
- If you take some medication.
- If you smoke.
- If you have low body weight.
- If you have had broken bones before.
- If you are a women.
- If you consume a lot of alcohol.
- As you get older your bones weaken.

Osteoporosis



Healthy bone Osteopord

Dental Health

- To maintain healthy teeth you need to have a balanced diet based on the Eatwell Guide.
- Tooth decay is caused when the **bacteria** in your mouth (plaque) feed on the sucrose to produce an **acid**. The acid then causes small holes in your teeth (dental caries)
- Sugar found naturally in fruit and vegetables are not as harmful, as they are less likely to lead to tooth decay and are easier for the body to absorb.

Anaemia

Anaemia, caused by a lack of iron in the diet, is one of the most common nutritional problems worldwide.

- we need iron it forms haemoglobin, which gives blood its blood its red colour and carries oxygen around the body to the cells.
- Teenage girls and women must make sure they have enough iron in their diet to cope with menstruation.
- Pregnant women need a good supply of iron to support the baby's blood supply.
- Symptoms of anaemia are tiredness and lack of energy.
- Good sources of iron are found in liver and kidneys, re meat, oily fish and leafy green vegetables.
- In the UK, some food are fortified with iron, e.g. breakfast cereals and flour.
- Vegetarians need to ensure that they get an adequate supply of iron from bread, pulses and vegetables.

State which two sections of the Eatwell Guide are the largest. [2 marks]	Test yourself	State two causes of heart disease. [2 marks]
Explain why the Eatwell consumer. [4 marks]	Guide is useful for State th disease	ree changes that a person with heart should make to their diet. [3 marks]
Name two foods which are found in the oils and spreads section of the Eatwell Guide. [2 marks] 	ples of not free sugars. [2 marks]	Explain the difference between type 1 and type 2 diabetes. [2 marks]
Give two examples of free sugars. [2 marks] Give four of the eight t marks]	ips for healthy eating. [4	State three factors which could increase your risk of osteomalacia. [3 marks]
Explain why we are encouraged to eat at least five portions of fruit and vegetables. [4 marks]		Name two groups of people most at risk of suffering from anaemia. [2 marks]

How do raising agents work?

- 1. The action of moisture, heat or acidity (or all 3) triggers a reaction with the specific raising agent to produce gas.
- 2. Gas expands when heated.
- 3. Gas becomes trapped as it bubbles through the mixture.
- 4. When heated the bubbles form a firm structure containing tiny holes left by the expanded gas.
- 5. This gives products like cake a sponge like texture. This is an example for a 40min cake in a 180°C oven



Cake batter (containing denatured protein) + gases (CO2+air)



10-15mins The gases expanding in the cake batter cause cake to

rise.







Gases have escaped and cake has set in a risen position due to coagulation of protein

Subject: 3D AD Topic: Grayson Perry Breakfast bowl and spoon

Year: 10 Term: 2



Describe the process of development in artists work.

Explain why primary sources are the richest form of research.

How can Secondary sources enrich the development of 3D ideas?

Show different ways of recording your observations

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

How can the refining process help you to fully realise intentions?

Why is it important to evaluate?

What is a prototype?







Key Skills		
RECORD I will learn to record images and information appropriate for the bowl theme using 2D & 3D media using drawing and photography building on my knowledge and understanding of how artists/designers use materials and imagery to create meaningful work ideas for a bowl inspired by Grayson Perry	DEVELOP I will learn how to develop • my observation skills using a range of media, techniques and processes. • my knowledge and understanding of 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	
 REFINE I will learn how to select and experiment with a range of 3D media and techniques select ideas to adapt and improve e.g. adjustments to size, colour and composition. develop a piece of work from one media into another 	 EVALUATE I will learn how to analyse and reflect on the development of my own work, through annotation making connections to artists and suggesting ways I could I improve. evaluate artists using analytical writing skills and forming opinions 	
PRESENT OUTCOUMES	BSCHIE REALITY A	

oduce one or more finished outcomes in



Homework Links

Tasks linked to the theme 'Bowls' (2 hours per cycle)



Key Vocabulary

Shape/Clay/Form/Coil/ Slab/Slip/Join/Texture/ Relief/Papiermâché/Primary Source/Secondary Source/Composition/ *Personality/Prototype*

I will be expected to recall keywords learned in previous projects and use them in the appropriate context.

EVALUATING ARTISTS'/DESIGNERS' WORK

- 1. Describe the piece of art/design you are looking at
- 2. What is the name of the artist/designer or type of art/design?
- 3. What part of the world does the art/design come from?
- 4. Research and list 5 or more things about the artist/designer?
- 5. Describe the materials used to make the art/design
- 6. How has the artist/designer made the work?
- 7. What is being communicated through the art/design?
- 8. Which of these words best describes the mood of the picture/artefact? EMOTIONAL/POWERFUL/HUMEROUS/USEFUL/SERIOUS/BUSY/SLOW/PEAC EFUL/WARM/COLD/HAPPY/SAD/CALM/INTENSE/ SCARY can you think of any other words?
- 9. What do you like or dislike about the picture/artefact? Explain your reasons...

ANNOTATING YOUR OWN WORK

- In this piece of work I was trying to...
- The artist/designer that has influenced my work is...
- In my work I used the technique of...
- The source I have used is...
- The media I have used is...
- I like this piece because...
- My idea links to the brief because...
- I can improve this piece by...
- Next, I'm going to.....

Annotate means to explain your own creations Artist evaluation is when you write about the artist Project evaluation is written about the whole project at the end

END OF PROJECT EVALUATION

- 1. Describe each stage of the project from start to finish
- 2. What media/materials 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/designer/culture have you looked at?
- 5. Write down two or more similarities between your work and the artist/designers' work.
- 6. Which piece of your work best shows the Artist/Designers' style or the influence of another culture and why?
- 7. Describe some of your own ideas...
- 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 if 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 brief?
- 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

