

Name: Form:

"You will face many defeats in your life, but never let yourself be defeated."

Maya Angelou

YEAR 11 KNOWLEDGE ORGANISER:

Autumn Term 2022



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Instructions for using your Knowledge Organiser

Every school day you should be studying at least **1** section of your Knowledge Organiser (KO) for homework.

The timetable on the next page tells you which subjects you should be studying on which days (it doesn't matter if you have that subject on that day or not, you should follow the timetable).

You are to use your exercise book to show the work you have done. Each evening you should start a new page and put the date clearly at the top.

You need to bring your KO and exercise book with you **EVERYDAY** to the academy.

Your parents should tick off your homework every evening using the grid in your KO on page 4. Parents should also sign off your reading using the reading log on page 5, this will be checked in your library lesson.

Your KO and exercise book will be checked regularly in form time, failure to show homework for **ALL FIVE** days of the week will result in an after school detention that day.

You will also be tested in your lessons on knowledge from the organisers.

Self-testing

You can use your KOs and book in a number of different ways but you **should not just copy** from the Knowledge Organiser into your book. Use the *'How to self-test with the Knowledge Organiser'* booklet to help you. It can also be found here: http://www.bluecoatwollaton.co.uk/learning/knowledge-organisers/



Below are some possible tasks you could do in your workbooks, no matter which task you do you should always check and correct your work in a different coloured pen.

- Ask someone to write questions for you
- Write your own challenging questions and then leave it overnight to answer them the next day
- Create mindmaps
- Create flashcards
- Put the key words into new sentences
- Look, cover, write and check
- Mnemonics
- Draw a comic strip of a timeline

- Use the 'clock' template to divide the information into smaller sections. Then test yourself on different sections
- Give yourself spelling tests
- Definition tests
- Draw diagrams of processes
- Draw images and annotate/label them with extra information
- Create fact files

Presentation

You should take pride in how you present your work:

- Each page should be clearly dated at the top left hand side with Subject 1 written in the middle.
- Half way down the page a line should divide it in two with Subject 2 written above the dividing line.
- Each half of the page should be neatly filled with evidence of selftesting. There should be an appropriate amount of work.
- Failure to show pride in your presentation or wasting space on your page with large writing or starting a number of lines down will result in a **negative point**.



Year 11 Knowledge Organiser Schedule: Autumn Term

You are expected to study the subject(s) shown on your timetable each day. Each day use a page of your exercise booklet to evidence your work.

Timetable for weeks beginning;		Subject 1	Subject 2
05/09/2022	Monday	English	Bedrock
19/09/2022	Tuesday	Maths	Α
03/10/2022	Wednesday	Science	RE
31/10/2022	Thursday	English	Maths
14/11/2022 28/11/2022 12/12/2022	Friday	Science	Bedrock

For weeks beginning;		Subject 1	Subject 2
12/09/2022 26/09/2022	Monday	English	Bedrock
10/10/2022	Tuesday	Maths	В
07/11/2022	Wednesday	Science	С
21/11/2022 05/12/2022	Thursday	English	Maths
19/12/2022	Friday	Science	Bedrock

To know which of your options subjects you should study look for your class code (you can find this on your main academy timetable) in the table below. Once you identify your subjects write them onto your homework timetable above. E.g. if you are in 11A/Hi1 you would write History in the box with the A.

Option A	Options B	Options C
11A/Gg1 - Geography	11B/Fr1 - French	11C/Ar1- Art
11A/Gg2 - Geography	11B/Dt1 - Design & Technology	11C/St1 - Sport
11A/Hi1 - History	11B/So1 - Sociology	11C/So1 - Sociology
11/Hi2 - History	11B/Cm1 - Creative Media	11C/Gg1 - Geography
11A/Fr1 - French	11B/Cc1 - Childcare	11C/Hf1 - Food
11A/Co1- Computer Science	11B/Dr1 - Drama	11C/Cc1 - Childcare
		11C/ Cm1 - Creative Media



Reading Log

Use this reading log to record the books you read, how long you have spent reading, plus AR quizzes and Bedrock lessons.

Week starting	Mon	Tues	Weds	Thurs	Fri	Sat	Sun	Total no. of minutes read	Bedrock lesson complete?	Parent/Carer Signature
06/09/2021										
13/09/2021										
20/09/2021										
27/09/2021										
04/11/2021										
11/10/2021										
01/11/2021										
08/11/2021										
15/11/2021										
22/11/2021										
29/11/2021										
06/12/2021										
13/12/2021										
20/12/2021										

'The more that you read, the more things you will know.

The more that you learn, the more places you'll go.'



Bedrock

Use this page to note down what days you have your Library lesson and what days you can access Bedrock without being locked out by the 24 hour drip feed...



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Monday morning
Bedrock reports
sent to your
English teacher(s)
to check your
progress

Add to the grid when you have your Library lesson

Shade with a pencil the days you can't do Bedrock due to the 24 hour block
Highlight/colour the days you can complete your Bedrock

Remember that the weekly minimum is:

1 x Bedrock Lesson (ideally during library lesson)

1 x Bedrock homework

= 2 per week

Aim to get everything done in plenty of time to grow your brain and get plenty of prizes for your progress:)

How do I self-quiz?

How to use...Flashcards

- On one side of the flash card, write the word or question.
- 2. On the other side, write the definition for the word, or answer to the question.
- Once you have completed your set of cards, put them in a pile. Then for each card, see if you can remember the definition or answer to the question. Tick or cross when you get it right or wrong.
- When you get the card right, place it in the 'correct' pile. When you get it wrong, place it in the 'wrong' pile. Repeat until all cards are in the 'correct' pile.

You can also use the Leitner Method: https://www.youtube.com/watch?v=C20EvKtdJwQ

How to use... Look, Cover, Write, Check and Correct

- Write your key words into the 'Look, Cover' column and then cover it.
- 2. Write out the meaning, definition or spelling in the 'Write' column.
- Put a 'tick' or 'cross' in the 'Check' column depending on if you got the answer right.
- 4. If you got the answer incorrect, write the correct answer in the 'Correct' column.

Look , Cover	Write	Check	Correct
Noun	A person, place or	>	
Algorithm	Algorithim	Х	Algorithm

How to use... Mind Maps

- Write out your topic or idea in the centre. E.g. The First World War.
- Off of the main bubble, write out important categories to organise your ideas. E.g. causes of WWI and events in WWI
- 3. Then add your knowledge off of these branches. You might even be able to make connections between them.
- 4. Once made, then redraw as many of the connections as possible from memory. Correct any errors.



How to use... Explaining a process/idea further

Your teacher might ask you to explain a key idea, process or event from your learning. This could be the water cycle (Geography), photosynthesis (Science) or something else. In your answer, try to use the words **because, but**, and **so.** These will help you to:

- Because: helps to explain a reason, cause or why something works.
- 2. **But:** helps to explain a limitation or problem.
- 3. **So:** helps to explain what happens next in a sequence, process or event.

Check your sentences to see if your explanations or right or wrong. Correct any errors.

How to... Summarise a process/idea

Rather than expand or explain a process, your teacher might ask you to summarise it into its key parts. E.g. summarising the plot 'A Midsummer Night's Dream' in English.

- Read through the relevant part of your knowledge organiser as directed by your teacher.
- 2. Write out the (up to) 5 most important parts in your KO book, leaving a two lines in-between.
- 3. For each part, add **one** main idea.
- E.g. here, the 4 key characters are picked out, and the direction of love is shown through the arrows. Check and correct any errors.

How to use... Subject Specific Tasks or Questions

Your teacher might choose to set a task that is not outlined here, and which is specific to that topic or their subject.

In this case, your teacher will outline specifically what it is you need to do, and how. This will still include you checking and correcting any errors.

Act 1: Hermia and Lysander love each other but are not allowed to marry so decide to run away to the forest to get married in secret. Demetrius wants to marry Hermia. Helena loves Demetrius. They follow Hermia and Lysander into the forest.





Year 11 English—A Christmas Carol

Sec	tion 1: Key vocabulary	
Tier 3 Vocabulary	Definition	
Literary Foil	A foil is a character who contrasts with another character; typically, a character who contrasts with the protagonist	
Asyndetic Listing	A list containing multiple conjunctions.	
Didactic	Teaching a moral lesson.	
Conceit	An extended metaphor.	
Allegorical	A story that reveals a hidden meaning-usually a moral one.	
Microcosm	A smaller version of a real society.	
Parable	A simple story used to illustrate a moral or spiritual lesson, as told by Jesus in the Gospels.	
Tier 2 Vocabulary	Definition	
Tier 2 Vocabulary Miserly	A miser is a person who is reluctant to spend.	
	A miser is a person who is reluctant	
Miserly	A miser is a person who is reluctant to spend. Having or showing a dislike of other	
Miserly Misanthropic	A miser is a person who is reluctant to spend. Having or showing a dislike of other people; unsociable. A person who supports the theories about population proposed by the English economist and clergyman	
Miserly Misanthropic Malthusian	A miser is a person who is reluctant to spend. Having or showing a dislike of other people; unsociable. A person who supports the theories about population proposed by the English economist and clergyman Thomas Robert Malthus.	
Miserly Misanthropic Malthusian Benevolent	A miser is a person who is reluctant to spend. Having or showing a dislike of other people; unsociable. A person who supports the theories about population proposed by the English economist and clergyman Thomas Robert Malthus. Well meaning and kind Having or showing a wish to do evil	
Miserly Misanthropic Malthusian Benevolent Malevolent	A miser is a person who is reluctant to spend. Having or showing a dislike of other people; unsociable. A person who supports the theories about population proposed by the English economist and clergyman Thomas Robert Malthus. Well meaning and kind Having or showing a wish to do evil to others.	

Section	2: Characters and Symbols	
Character or symbol	Symbolic significance	
Scrooge	Scrooge represents the misanthropic and Malthusian upper classes but his capacity to change teaches a didactic lesson.	
The Cratchit Family	The family symbolise the plight of the poor and they contrast Scrooge's Malthusian views.	
Tiny Tim	Tiny Tim represents the way in which the innocent are corrupted by society and some critics have drawn parallels between him and Jesus Christ.	
The Ghosts	The Ghosts symbolise Scrooge's past, present and future. Through each of their 'hauntings' Scrooge's transformation is completed.	
Ignorance and Want	These two children represent the rich and the poor's struggles. While the poor are weighed down by Want, it is clear that Ignorance is the more dangerous of the two.	
Fred and Fezziwig	Both characters jovial nature is a foil to Scrooge. Each character teaches us how we should act in society.	
Belle	Belle is in the novella to remind us of the consequences of Scrooge's greed.	
The narrator	The intrusive narrator 'haunts' us just as the ghosts 'haunt' Scrooge.	
Fire and Ice	Images of fire and brightness are used as symbols of emotional warmth and Christian Spirit.	
Music	Music is an important symbol of celebration and happiness. This is a Christmas CAROL celebrating Scrooge's change.	

Section 3: Key quotes and ideas						
'As solitary as an oyster' Stave 1	'God bless us everyone!' – Tiny Tim's positive attitude					
	in Stave 3					
'I wear the chain I forged in life' –Ghost of Marley in	'There sat a jolly Giant, who wore a glowing torchit					
Stave 1	was clothed in one simple					
	green robe' – Ghost of					
	Christmas Present in Stave 3					
'His face was ruddy and	'The phantom slowly, grave-					
handsome, his eyes spar- kled' – Fred (presented as	ly, silently approached' – Ghost of Christmas Yet to					
the opposite to Scrooge)	Come in Stave 4					
Stave 1	(1:111 h					
'It wore a tunic of the purest white from the crown	'I will honour Christmas in my heart' - Scrooge in Stave					
of its head there sprung a	4					
bright clear jet of light' – Ghost of Christmas Past						
Stave 2						
'A lonely boy was sat read-	'to Tiny Tim, who did NOT					
ing near a feeble fire' – Scrooge as a young boy	die, he [Scrooge] was a second father' Stave 5					
Stave 2						
///Your line in transplaine / on ind	III and an light an a factbour					
"Your lip is trembling,' said the Ghost, 'And what is that	"I am as light as a feather, I am as happy as an angel, I					
upon your cheek?' Stave 2	am as merry as a school-					
0.0 a laba.	boy." Stave 5					
Waithusia	an Theory					
Quantity	Population					
Malthusian catastrophe Production of food						
	Time					

		Sec	tion 4: The Exam Rubric	Section 5: Key Concepts	
				The concepts below are focused on in this un	it.
	Level	Mark	Descriptor – Bullets 1 and 2 – AO2 (20 marks) please see page 4	OPPRESSION	POWER
		0	No rewardable material.	M/han naviania abisand in audomba lissib a massas/a	
	Level 1	1-4	The response is simple and the identification of language, form and structure is minimal. Little evidence of relevant subject terminology.	When power is abused in order to limit a person's freedom and rights.	The ability to direct or influence people's behaviours, or to make decisions that are significant and important. It can be
	language, form and structure.	The response is largely descriptive. There is some comment on the language, form and structure. Limited use of relevant subject terminology to support examples given.	REVOLUTION	used well or it can be abused. REDEMPTION	
Section A	Level 3	9-12	The response shows an understanding of a range of language, form and structure features and links them to their effect on the reader. Relevant subject terminology is used to support examples given.	This can mean an overthrowing of a government or social order in favour of a new system. This can	Being saved from sin or evil. It allows characters to change and grow, learning from past mistakes and sins. It can also
	Level 4	13-16	The response is focused and detailed. Analysis of language, form and structure features and their effect on the reader is sustained. Relevant subject terminology is used accurately and appropriately to	be sparked by new ideas/philosophies and is very tied to political structures.	have strong religious connotations.
			develop ideas.	PREJUDICE	EXPLOITATION
	Level 5	17-20	The response is a cohesive evaluation of the interrelationship of language, form and structure and their effect on the reader. Relevant subject terminology is integrated and precise.	When we make judgements that are unfair, based on wrong assumptions about people. For	Treating someone unfairly and manipulating them in order to gain something for yourself.
[example, someone might be prejudiced about	
	Level	Mark	Descriptor - Bullets 1, 2 and 3 - AO1 (20 marks) please see page 4	someone else's race, sexuality or religion.	
1	Level 1	0	No rewardable material.		
	Level 1	1-4	 The response is simple with little personal response. There is little evidence of a critical style. 	Section 6: Previous Learning	

		o No rewardable material.					
	Level 1	1-4	The response is simple with little personal response. There is little evidence of a critical style. Little reference is made to the content or themes of the text.		Section 6: Previous Learning Previous important learning		
	Level 2	5-8	The response may be largely narrative but has some elements of personal response. There is some evidence of a critical style but it is not always applied				
			securely. Some valid points are made, but without consistent or secure focus.		Autobiography	Shaping identity and exploring perspectives.	
	Level 3	9-12	The response shows a relevant personal response, soundly related to the text.		Romeo and Juliet	Exploring conflict, consequences and identity.	
Section B	Level 4		 There is an appropriate critical style, with comments showing a sound interpretation. 		Enlightenment and	Exploring the impact of the industrial revolution and its impact on nature	
			 The response is relevant and focused points are made with support from the text. 		Romantic Poetry	and society.	
			The response has a developed personal response and thorough engagement, fully related to the text. The critical style is sustained and there is well-developed interpretation. Well-chosen references to the text support a range of effective points. There is an assured personal response, showing a high level of engagement with the text. A critical style is developed with maturity, perceptive understanding and interpretation. Discerning references are an integral part of the response, with points made with assurance and full support from the text.		Of Mice and Men	Using a text to criticise societal issues and concerns.	
					An Inspector Calls	Literature reflecting political and socio-economic concerns of society	
	Level 5			Post-war/postmodern (Y10)	Literature reflecting a changing society.		
					Expressing voice (Y10)	How do people in society share their voices?	



Section	Section 1: Key Vocabulary					
Tier 3 vocabulary	Definition					
Product (n)	The answer when two or more values are multiplied together.					
Sample space (n)	This shows all possible outcomes for that experiment.					
Independent event (n)	This is when two events occur and they don't affect each other.					
Mutually Exclusive (ad)	Two events that can't happen at the same time.					
Tier 2 vocabulary	Definition					
Venn diagram (n)	A diagram showing data in circles inside a rectangle, based on their over lapping features.					
Event (n)	The results from a particular experiment.					
Frequency (n)	This shows how many times something happens.					
Probability (n)	How often an event should occur as a proportion of the amount of total attempts; written as a fraction, percentage or decimal.					
Likelihood (ad)	The worded form of the probability of events. E.g. impossible, unlikely even chance.					
Certain (ad)	Something which will definitely happen or is definitely true					

Concepts you have seen before:

Product, Venn Diagrams, Probability of Events, Decimals, Fractions, Percentages

Section 2: Key Facts and Processes

Combined Events

Product rule

A restaurant menu offers 4 starters, 7 main courses and 3 different desserts. How many different threecourse meals can be selected from the menu?

Multiplying together the number of choices for each course gives $4 \times 7 \times 3 = 84$ different three-course meals.

Sample space diagrams

What is the probability of scoring two sixes (a 12) from two dice? 6 7 Chance on dice 1: 1/6 Chance on dice 2: 1/6 $1/6 \times 1/6 = 1/36$ 9 10 11 This can be seen in 8 9 10 11 12 the diagram

Relative frequency

Relative frequency is used when probability is being **estimated** using the outcomes of an experiment. E.g. The relative frequency of picking a pink ball is 30% (0.3) because 6 out of 20 is 30%.

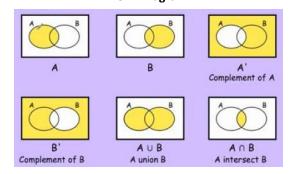


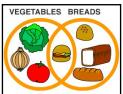
Colour	Frequency	Relative Frequency
blue	5	5/20 = 0.25
green	4	4/20 = 0.2
pink	6	6/20 = 0.3
red	3	3/20 = 0.15
orange	2	2/20 = 0.1
Totals	20	1

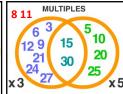
A class of 20 children each had a turn blind-folded to pick a ball from a jar to see what colours they would get.

Section 3: Support

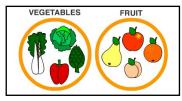
Venn Diagram







If sets contain the same elements the circles intersect.



If sets do not contain the same elements. there is no intersection.

Access **Hegarty Maths** on a computer, tablet device or smartphone for additional support: www.hegartymaths.com



Select Bluecoat Wollaton Academy as your school.

	1 1
Topic	Videos
Combined Events	671, 672, 673, 358, 359
Relative Frequency	351, 352, 353, 354, 355
Probability tree diagrams	360, 361, 362, 363, 364, 365
Venn Diagrams	372 to 391

Further Probability and Combinatorics Recall

Year 11 Autumn 1



Castian A. Kar Va salarian						
S	ection 1: Key Vocabulary					
Tier 3 vocabulary	Definition					
Sample space (n)	The sample space of an experiment is the set of all possible outcomes for that experiment.					
Relative frequency (n)	The relative frequency of an event is defined as the number of times the event occurs during experimental trials.					
Independent event (n)	Two <i>events</i> , A and B, are <i>independent</i> if event A occurs and does not affect the probability of event B occurring.					
Mutually exclusive (ad)	If two events are mutually exclusive, it means that they cannot occur at the same time.					
Union (n)	The union of two sets A and B is the set of elements which are in A, in B, or in both A and B.					
Intersection (n)	The intersection of two sets A and B, is the set containing all elements of A that also belong to B					
Tier 2 vocabulary	Definition					
Event (n)	A set of possible outcomes resulting from a particular experiment.					
Frequency (n)	The frequency of a particular data value is the number of times the data value occurs.					
Probability (n)	A measure of how often a particular event is statistically likely to happen.					
Notation (n.)	The format in which something is written.					

Concepts you have seen before:

Product, Venn Diagrams, Probability of Events, Decimals,

Section 2: Key Facts and Processes

Combined Events

Product rule: Multiply together the number of choices

A restaurant menu offers 4 starters, 7 main courses and 3 different desserts. How many different three-course meals can be selected from the menu?

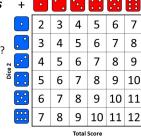
Multiplying together the number of choices for each course gives $4 \times 7 \times 3 = 84$ different three-course meals.

Sample space diagrams

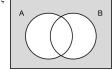
What is the probability of scoring two sixes from two dice (add to 12)?

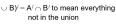
Chance on die 1: 1/6 Chance on die 2: 1/6

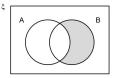
 $1/6 \times 1/6 = 1/36$



$A^{\prime} \cup B$ to mean the union of A^{\prime} and B $(A \cap B)^{\prime} = A^{\prime} \cup B^{\prime}$ to mean everything not in the intersection







 $(A \cup B)' = A' \cap B'$ to mean everything $A' \cap B$ to mean everything not in A that is in B

.Independent events

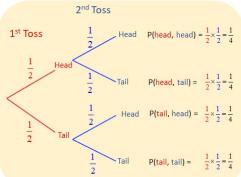
In general if two events A and B are independent then;

 $P(A \cap B) = P(A) \times P(B)$

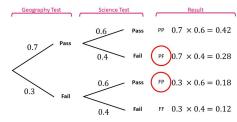
Section 3: Support

Probability Tree diagrams

Tree diagram to show the probabilities when a coin is tossed twice.



Combined probabilities are calculated by multiplying along branches. The probability of throwing two heads is therefore: $P (head, head) = 0.5 \times 0.5 = 0.25$



Above is the probability of passing and failing two tests.

This is the probability for only one fail: It is the addition of P(PF or FP) = 0.28 + 0.18 = 0.46

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Topic	Videos
Combined Events	671, 672, 673, 358, 359
Relative Frequency	351 to 357
Independent Events	360, 361, 362, 363
Venn Diagrams	372 to 391

Foundation Maths

Sequences and Proportion Recall

Year 11 Autumn 2



Sect	Section 1: Key Vocabulary					
Tier 3 vocabulary	Definition					
Function (n.)	The relationship between two sets of values.					
Reciprocal function (n.)	A function of the form $y = \frac{A}{x}$					
Linear sequence (n.)	A sequence with a constant difference between terms					
Direct proportion (n.)	When one quantity increases, the other quantity increases at the same rate, eg. if one doubles, the other doubles. The ratio of the one quantity to the other is a constant, k .					
Inverse Proportion (n.)	Two variables are inversely proportional if one is proportional to the reciprocal of the other.					
Tier 2 vocabulary	Definition					
Inverse (n.)	The inverse operation reverses the effect of the original operation.					

Concepts you have seen before:

Factorising, sequences, substitution into a formula, ratio, direct proportion, calculator skills.

Section 2: Key Facts and Processes

Linear nth term

n 1 2 3 4 5 6 nth term= sequence 2 5 8 11 14 17 3n-1

The numbers in the sequence can be defined as **terms**.

n describes the position of the term. For the second term the position is 2, therefore the number in the sequence is found by substituting n = 2 (3 x 2) - 1 = 5

The graph formed will be a **linear** graph.

Quadratic nth term

n 1 2 3 4 5 6 nth term= sequence 2 4 8 14 22 32 $n^2 - n + 2$

The sequence is found by substituting in the n values. For the first term, n is 1. Therefore

The graph formed will be a quadratic graph.

This is an example of y = 3x where k (the constant of proportionality) is 3. x and y increase at the same rate.

Two variables are inversely proportional if one in-

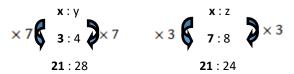
						_
cre	Х	1	2	4	6	reases.
	у	12	6	3	2	4 - 3
		<i>y</i> ∝	$\frac{1}{x}$:	<i>y</i> =	$\frac{k}{x}$	•

Section 3: Support

Different ratios can be combined by finding equivalent ratios.

Both sides of the ratio can be multiplied or divided to find equivalent ratios, like this: 1:4=2:8=3:12

If x : y = 3 : 4 and x : z = 8 : 7, x appears in both ratios. Therefore we must make the x the same in each ratio. We want to put the ratios together to make x : y : z



We multiply each ratio to make the x value the same in each. Now the x values are the same we can combine to make $\mathbf{x}:\mathbf{y}:\mathbf{z}$

21: 28: 24

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Topic	Videos
Ratio	328-336
Linear sequences and graphs	196-198
Arithmetic sequences	919-922
Quadratic sequences	247
Direct & inverse proportion	339-348



Sect	Section 1: Key Vocabulary					
Tier 3 vocabulary	Definition					
Function (n.)	The relationship between two sets of values.					
Inverse function (n.)	A function that performs the opposite process of the original function.					
Reciprocal function (n.)	$y = \frac{A}{x}$ A function of the form					
Quadratic sequence (n.)	A sequence in which the second row of differences is constant. The rule contains a quadratic term (and no higher power terms)					
Direct proportion (n.)	When one quantity increases, the other quantity increases at the same rate, eg. if one doubles, the other doubles. The ratio of the one quantity to the other is a constant, k .					
Inverse proportion (n.) Tier 2 vocabulary	Two variables are inversely proportional if one is proportional to the reciprocal of the other. Definition					
Proportion (n.)	A proportion is part of the whole.					
Inverse (n.)	The inverse operation reverses the effect of the original operation.					
Rearrange (v.)	Change the position or order of something					

Concepts you have seen before:

Factorising, completing the square, sequences, substitution into a formula, plotting points on a graph, translations, calculator skills.

Section 2: Key facts and processes

A quadratic in the form $ax^2 + bx + c = 0$ can be solved to find x using the quadratic formula:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

f(x): x is the **input** value

f(x) is the output value

f(x) = 3x + 11

If the input value of x = 5, the output value is:

$$f(5)=(3x5)+11=26$$

Composite functions are in the form $fg(\boldsymbol{x}),$ where function

g(x) is the input of the f(x) function (put g(x) into f(x))

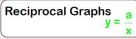
Here	is a tak	le ₀ of va	ues wh	ere x is	directly	proport	ional to y
	y	0	3	12	48	33	

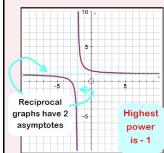
This is an example of y = 3x where k (the constant of proportionality) is 3. x and y increase at the same rate.

Two variables are $\mbox{\it inversely proportional}$ if one increases at

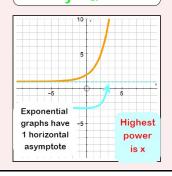
x	1	2	4	6	ases. Note that xy = 12.
у	12	6	3	2	1

 $y \propto \frac{1}{x}$: $y = \frac{k}{x}$





Exponential Graphs $y = a^x$

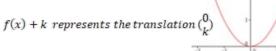


Section 3: Support

It is interesting to note the effect that an additional operation has on a function. Let us consider $f(x) = x^2$

х	-2	-1	0	1	2
f(x)	4	1	0	1	4
f(x)+2	6	3	2	3	6

This will have the effect of **translating** the graph up by 2 units as shown



Summary of other translations of graphs:

f(x+k) Represents a translation to the **left**, by vector $\binom{-k}{0}$

-f(x) Represents a reflection in the x-axis.

f(-x) Represents a reflection in the y-axis

Access **Hegarty Maths** on a computer, tablet device or smartphone for additional support:



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Topic	Videos
Quadratic sequences	247-251
Completing the square	235-239
The quadratic formula	240-242
Iteration	322
Direct & inverse proportion	339-348
Recognising graphs	299-305
Transforming graphs	307-313

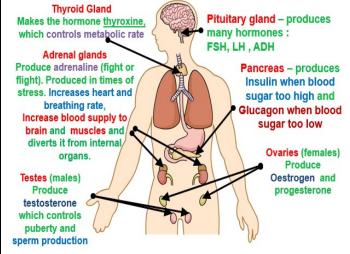
Subject: Biology Year 11 Autumn Term—B5 The Endocrine System

Section A: Key vocabulary		
Tier 3 Vocabulary	Definition	
Homeostasis (n)	How the body maintains its internal environment.	
Gland (n)	An organ or tissue that makes a substance for release.	
Hormone (n)	Chemical messenger produced in glands and carried by the blood.	
Pituitary gland (n)	Gland that is responsible for releasing a number of important hormones.	
Oestrogen (n)	Female sex hormone which makes the lining of the uterus repair and grow.	
Progesterone (n)	Female sex hormone which maintains the lining of the uterus.	
FSH (n)	Stimulates an egg in the ovary to mature.	
LH (n)	Triggers ovulation.	
Tier 2 Vocabulary	Definition	
Maintain (v)	Cause something to continue.	
Stimulate (v)	Raise levels of something.	
Contraceptive (adj)	Method of preventing pregnancy.	

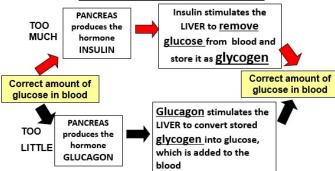
Section B: Important Ideas / Concepts/ Questions

Endocrine system – <u>hormones</u> are chemical messengers, that $\underline{\text{travel}}$ in the blood from glands to target organs.

Hormones travel slowly but have long lasting effects.



Control of blood glucose levels



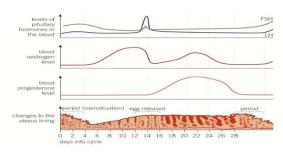
Type 1 diabetes – pancreas produces too little or no insulin. Treated with insulin injections after meals.

Type 2 diabetes – the body doesn't respond properly to the insulin it makes.. Controlled by diet.



Section C:

Hormones of the menstrual cycle



FSH—causes an egg to mature and stimulates the ovary to produce oestrogen.

Oestrogen—causes the lining of the uterus to thicken, inhibits FSH stimulates release of LH.

LH—triggers ovulation, inhibits oestrogen.

Progesterone—maintains the lining of the uterus, inhibits release of FSH and LH.

Hormones and fertility

Hormones can be used to control fertility. The oral

contraceptive contains oestrogen and progesterone, which inhibit the production of FSH so eggs cannot

mature.

If taken correctly oral contraceptives can be 99%

effective, however there can be side effects such as changes in weight, mood and blood pressure.

Contraceptives can be taken in different ways.

Hormones can also be used if a couple of having

problems conceiving a child naturally, for example by using fertility drugs and IVF.

Concepts you have seen before:

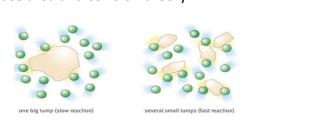
Year 8 Inheritance, Year 10 B1

Chemistry—C6 Autumn Term The rate and extent of chemical change

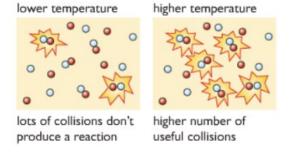


Section A: Key vocabulary		
Tier 3 Vocabulary	Definition—linked to topic	
Activation energy (n)	The minimum energy needed for a reaction to take place.	
Equilibrium (n)	The point in a reversible reaction at which the forward and backward rates of reaction are the same.	
Le Châtelier's Principle (n)	When a change in conditions is introduced to a system at equilibrium, the position of equilibrium shifts so as to cancel out the change.	
Reversible reaction (n)	A reaction in which the products can re-form the reactants.	
Collision theory (n)	Particles need to collide with enough activation energy to cause a reaction to take place. This is called collision theory.	
Tier 2 Vocabulary	Definition	
Surface area (n)	Rate increases if the surface area to volume ratio of solid reactants is increased.	
Temperature (n)	Rate increases if temperature increases as particles collide more frequently and more energetically.	
Concentration (n)	Rate increases if concentration increases as the frequency of collisions increases.	

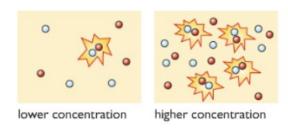
Section B: Important Ideas / Concepts/ Questions Surface area and collision theory



Temperature and collision theory



Concentration/pressure and collision theory



Catalyst and collision theory

Catalysts do not increase the frequency of collisions between reactant particles they provide an alternative pathway with a lower activation energy.

Section C: Subject Specific

Measuring rate of reactions using experiments:

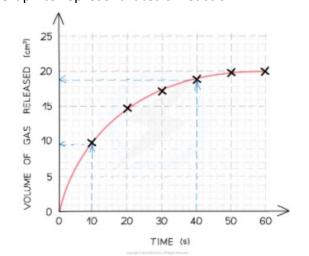
- Measuring the decreasing mass of a reaction mixture.
- Measuring the increasing volume of gas given off.
- Measuring the decreasing light passing through a solution.

Calculating the mean rate of reaction

<u>Quantity of reactant used</u> or <u>Quantity of product formed</u>

Time Time

Graph to represent rates of reaction



Concepts you have seen before:

Fireworks exploding and iron rusting

Subject: Physics Year 11 Autumn Term— Forces

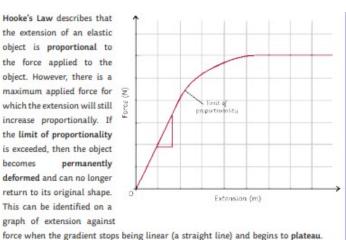


Section	A: Key vocabulary
Tier 3 Vocabulary	Definition
Force (n)	A force (in newtons, N) can change the motion of an object
Free body diagram (n)	A diagram that shows all the forces on an object without showing any other objects or forces
Line of action	The line along which a force acts
Magnitude	Size or amount of a physical property
Scalar	A quantity that only has a mag- nitude (size) e.g. distance and speed
Vector	A quantity that has a magnitude and a direction e.g. displacement and velocity
Tier 2 Vocabulary	Definition
Effort (n)	The force applied to a device to lift or move an object
Load (n)	The force applied by a device when it is used to move an object
Force (n)	A force (in newtons, N) can change an object's motion
Weight (n)	The force of gravity on an object (newtons, N)
16 Moment (n)	The turning effect of a force (newton metres, Nm).

Section B: Force and extension 10 mm 20 mm extension

Spring Constant and Hooke's Law

Hooke's Law describes that the extension of an elastic object is proportional to the force applied to the object. However, there is a maximum applied force for which the extension will still increase proportionally. If the limit of proportionality is exceeded, then the object permanently deformed and can no longer return to its original shape. This can be identified on a graph of extension against



The limit is shown on the graph above and this is the specific object's elastic limit.

Section C: Contact and Non Contact Forces

Forces either push or pull on an object. This is as a result of its interaction with another object.

Forces are categorised into two groups:

Contact forces - the objects are touching e.g. friction, air resistance, tension and contact force.

Non-contact forces - the objects are not touching e.g. gravitational, electrostatic and magnetic forces.

Forces are calculated by the equation: force (N) = mass (kg) × acceleration (m/

Forces are another example of a vector quantity and so they can also be represented by an arrow.



Concepts you have seen before:

Year 7 States of Matter, Year 7 Energy

Yr 11 Religious Studies: Life and Death in Christianity (Sanctity of life/Abortion/Euthanasia) 1



Section A	a: Key vocabulary
Tier 3 Vocabulary	Definition
Sanctity of life (n)	The belief that life is created by God and made holy by him.
Sacred (n)	Linked to God in a special way.
Situation Ethics (n)	Deciding what is right or wrong (moral laws) depending on the situation
Abortion (n)	The legal ending of a pregnancy
Pro-life (n)	The view that a foetus has the right to life
Pro-choice (n)	The view that the mother should be able to choose whether to have an abortion.
Humanist (n)	A person who believes that people's spiritual and emotional needs can be satisfied without following a god/religion.
Euthanasia (n)	The painless killing of someone dying from a terminal illness (an illness they will eventually die from).
Assisted suicide (n)	Providing someone with the means to kill themselves.
Tier 2 Vocabulary	Definition
Conception (n)	The fertilisation of the egg by the sperm.
Foetus (n)	A growing human in the womb from two months after conception.
Suicide (n)	Ending your life on purpose

Section B: Sanctity of Life

- Human life is special, **sacred** and holy because it was created by God.

- Only God has the right to take life away: 'The Lord gave (life), and now he has taken away...' (Job 1:21)

- Human life is **sacred** because God's Spirit lives in each person: **'You are God's temple and God's spirit lives in you...'** (Corinthian's 3:16)

Section C: Abortion

What is abortion?: The termination or ending of a pregnancy.

What does British Law say about abortion?

The 1990 **abortion** Act states that an **abortion** cannot happen after 24 weeks of pregnancy.

What do Christians think about abortion?

Roman Catholic (against)	Liberal Protestant (support-only in
	certain circumstances)
Catholics believe adoption is	They believe that life does not begin
always a better option.	at conception.
Life begins at conception.	Parents should be allowed abortions
	based on medical tests.
The Ten Commandments	Jesus told people to love their
teaches that it is wrong to take	neighbour, an abortion may be the
life.	most loving thing to do.
Life is holy and belongs to	If banned, rich women would pay for
God, therefore only God has	abortions in another country, but
the right to end a pregnancy.	the poor would use 'back street'
	abortions, which can lead to the
What do Humanists (athousts thin)	death of the mother.

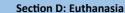
What do Humanists/atheists think about abortion?

Most **Humanists** believe that abortion should be allowed because:

- A foetus is not a life until it can survive outside the mother's womb.
- A woman should have the rights to her own body;
- Should be allowed for victims of rape or abuse.

How can we apply Situation Ethics?

Situation ethics is the belief that Christians should do the most loving thing in a situation. Abortion may be the most loving choice.



The painless killing of someone suffering from a painful disease (a 'good' death).

Forms of euthanasia are:

Assisted suicide - providing someone with the means to commit suicide.

Voluntary euthanasia - a person's life is ended at their own request.

<u>Non-voluntary</u> - ending someone's life as they cannot ask but you believe it is the best for them.

In the UK, all forms of euthanasia are **illegal** and can lead to a charge of murder. However, UK law agrees that removing of life support or nutrition or not providing medication for someone close to death are acceptable. This is known as **passive euthanasia**.

- Roman Catholics believe euthanasia is wrong because the Bible says: 'Do not murder'. - We should accept suffering as God's will - 'Shall we accept good from God and not trouble?' (Job 2:10) and for Jesus to be human he had to suffer. - Jesus taught people to: "Love your neighbour" - helping someone to end their suffering through assisted suicide could be the most loving thing to do (Situation Ethics). - Painkillers given which may shorten lebut help with pain are acceptable.
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God's will – 'Shall we accept good from God and not trouble?' (Job 2:10) and for Jesus to be human he but help with pain are acceptable.
from God and not trouble?' (Job 2:10) and for Jesus to be human he but help with pain are acceptable.
2:10) and for Jesus to be human he but help with pain are acceptable.
2.10) and for Jesus to be number for
had to suffer.
Atheists and Humanist arguments Atheist and Humanist arguments for
against Euthanasia: Euthanasia:
- There will always be doubts if it is - Advances in medicine have meant that
actually what the person wants. people who should have died have been people who should have been people who should have died have been people who should have been people where the people who should have been people where the people who should have been people where the people where the people who should have been people where the people who should have been people where the
kept alive.
- There is also the problem as to
whether the disease is terminal,
there may be a cure found in the
future.

The Christian response to those suffering with a terminal illness is the **hospice movement.** This provides care for those in pain, preparing to die natu-

Concepts you have seen before:

Philosophy, Ethics, Situation ethics, Creation, Humanism

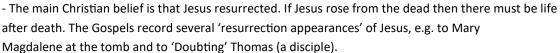
Yr11 Religious Studies: Life and Death in Christianity (Christian beliefs in life after death/Non-Religious views) 2



S	Section A: Key Vocabulary
Tier 3 Vocabulary	Definition
Immortality of the soul (n)	The belief that the soul lives on after the death of the body.
Soul (n)	The spiritual or immaterial part of a human regarded as immortal.
Immortal (a)	Living forever; never dying or decaying.
Resurrection (n)	The belief that Jesus rose from the dead.
Reincarna- tion (n)	The belief that after death, souls are reborn in a new body
Near Death Experience (NDE) (n)	When people about to die have out of body feelings/experiences.
Medium (n)	A person who claims they can communicate with the spirit world.
Heaven (n)	A place regarded in various religions as the abode of God.
Hell (n)	A place of perpetual fire where the wicked are punished after death.
Tier 2 Vocabulary	Definition
Phenomena (a)	A happening or fact that can be seen or known through the senses or an unusual or remarkable person or event.
Paranormal (n)	Unexplained events that are thought to have spiritual causes e.g. ghosts and mediums.
Non-material (n)	Non-physical
Death (n)	The end of life in any living thing, or the end of the life of a particular individual.

Section B: Why do Christians believe in life after death?

Christians believe that this life is not all there is. They believe that God will reward the good and punish the bad in some form of life after death. They believe this because:





Jesus taught that he would come again at the end of the world for final judgement, with either Heaven or Hell as the final destination.

- All Christian churches teach about life after death.
- There are many Biblical references to heaven and hell (e.g. In the book of Revelation 21:4, it speaks of the end times where God will: '...wipe every tear...There will be no more death, for the old order of things has passed away.'



Section C: Why do non-religious people believe in life after death?

after death?		
Near-death	This is a phenomena when people are	
experiences	clinically dead for a period of time and then	
	come back to life. People often describe	
	feeling peace, a sensation of floating above	
	the body, seeing a bright light or entering	
	another world. If NDE's are true, then there is	
	life after death.	
Evidence of a	Ghosts appear to give evidence of the spirits	
spirit world	and souls of the dead surviving death but the	

Ghosts appear to give evidence of the spirits and souls of the dead surviving death but the clearest evidence seems to come from mediums. A medium is a person who claims to have the gift of communicating between the material world in which we live and the spiritual world inhabited by those who have died.

Evidence of reincarnation (remembered lives)

Many non-religious people claim to have remembered lives. There have been many cases of children when they can first talk saying that they remember another life.

Section D: Non-religious reasons <u>not</u> to believe in life after death

- All the different religions have a different idea about life after death; surely if it existed they would all be the same.
- They do not believe in God so there is no heaven to go to.
- There is poor evidence to support theories about life after death like near death experiences and the spirit world.



Section E: Christian response to non-religious arguments against life after death

- The Biblical record of the resurrection can be relied upon. The disciples would not have risked and lost their lives for something they knew to be a lie.
- Heaven is a spiritual, not physical, dimension so would not be found by space exploration. Descartes argued that the mind is separate from the body so could therefore survive without the body.

Concepts you have seen before:
Life of Jesus , Heaven and Hell, Judgement Day

Yr11 Religious Studies: Life and Death in Christianity: Origins of the universe/Christian responses/Stewardship 3



Section A: Key vocabulary		
Tier 3 Vocabulary	Definition	
Creationism (n)	Science is wrong, the Bible is correct.	
Intelligent Design (n)	The universe is so complex it must have been created by God.	
Theistic evolutionist (n)	A belief that evolution is the process by which God created the world.	
Apparent Age Theory (a)	The belief that the earth is not old, it just looks old. God designed the earth with in-built apparent age.	
Stewardship (n)	Looking after something so it can be passed on to the next generation.	
Tier 2 Vocabulary	Definition	
Big Bang (n)	The universe was made by a burst of energy, which sent matter and gases flying out in all directions.	
Evolution (n)	Life has developed from earlier forms	
Survival of the fittest (n)	The way in which animals and plants adapt to their surroundings	
Animal Rights (n)	Animals should have rights in the same way as humans do	
Animal experimentation (n)	Doing scientific or medical experiments on live animals	

Concepts you have seen before: Creation, Ethics, Philosophy

Section B: Origins of the universe

What is the Big Bang theory?

Approximately 13.7 billion years, a huge explosion, as matter flew away from the burst of energy, forces of gravity helped to join some of the matter into stars.

What evidence is there to support the Big Bang theory?

- The Higgs field invisible force field that gave particles mass and allowed them to form objects.
- Redshift effect colour of stars informs us that they are moving away from us, indicating that the world is still expanding.
- Background radiation left over radiation from the explosion
- Gravitational waves triggered by the rapid expansion of the universe during the Big Bang.

What are the non-religious explanations for the origin of human life?

Evolution









The theory of evolution Is widely accepted scientific theory that explains how life developed on earth. It suggests that:

- Life started billions of years ago with single celled creatures in the sea.
- Over millions of years, these simple organisms evolved into different species.
- This happened through a process called survival of the fittest (over a long period of time, a species gradually evolves into a new one as it adapts to its environment.)

What evidence is there to support evolution?

Fossils – fossil records show that the older the fossil the simpler the structure. Fossils have also been found of extinct species that did not survive natural selection.

- DNA – 50% of human DNA is the same as cabbage suggesting a connection between animal and vegetable life.

Section C: Christian responses to scientific theories

How do Christians respond to the Big Bang theory?

- Creationism science is wrong and the Bible is right. The evidence there is for the Big Bang and evolution can be explained by the effects of Noah's flood and the Apparent Age theory.
- Intelligent design response the universe is so complex that it could not have happened by chance. They believe it must have been created by an intelligent designer God.
- Compatibility response the biblical stories are symbolic to show that God created everything. They believe in the Big Bang but believe that God set it off and controlled how the world was developed.

What issues do evolution raise for Christians and how do they respond?

- It suggests that humans have not been created by God.
- It means there was no Adam and Eve and original sin so we do not need to be saved from our sins.
- Life can only be sacred if created by God.
- Bible stories about creation may be wrong.
- Some Christians totally reject evolution and only believe what it says in the Bible, others believe that God designed evolution and was all part of God's plan and design.

Section D: What do Christians believe about how we should treat the world? (Stewardship)

The universe has great value for Christians. God has made the universe, and has placed humans in the universe to look after this most valuable creation. They believe this because:

- As God made everything, humans must respect the whole environment.
- The environment is a gift from God to humans and so must be treated with care.
- The Bible makes it clear that there will be judgement day at the end of the world. Most Christians believe that part of this judgement will be based on how they have fulfilled their duty to preserve the earth.

Year 11 Religious Studies: Islam – Peace and Conflict (1)



S	ection A: Key Vocabulary
Tier 3 vocabulary	Definition
Salam (n)	Peace
Dar as Salam	The house of Peace
(n)	THE House of Feace
Salaam Alaikum	Peace be with you (Muslim greeting)
Ahmadiyya (n)	A group of Muslims that are completely
(n)	against war
Ah Rahim (n)	God is merciful
Vicegerents	A person responsible for enforcing justice
(n)	on earth on Allah's behalf
Situation Ethics (n)	A theory where the situation is taken into account first, before deciding on the rules of right and wrong.
Tier 2 vocabulary	Definition
Justice (n)	The proper administration of the law, everybody being treated fairly .
amicable (n)	Showing a polite and friendly desire to avoid disagreement.
Reconciliation (n)	Bringing two people back together after separation
Peace (n)	A state or period in which there is no war or a war has ended.
United Nations (n)	An international organisation of countries set up in 1945, to promote international peace, security, and cooperation.
Aggressor (n)	A person or country that attacks another first.

Section B: Peace & Peace-making

Muslim attitudes towards peace

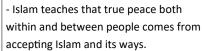
- Since the word 'Islam' is derived from the word meaning 'peace' in Arabic, Islam itself is a religion which its followers believe brings a peaceful life.

'You who believe! Enter into peace wholeheartedly; and follow not the footsteps of the Evil One' (Surah 2:208)

- "Salaam alaikum" "May peace be with you" Muslim equivalent of "Hello".
- One of the attributes Of God described in the Qur'an is 'peace and security'.

Peace is important for Muslims because:

The Qur'an calls Islam 'Dar as Salaam'.



- Peace should take a central place in a Muslim's life. Muslims should always look for an amicable solution to any conflict.

The role of Muslims in peacekeeping

Muslims are encouraged to seek justice as a way of making peace. If a society and its laws are unjust then they may campaign against them which causes conflict.

The Ahmadiyya group motto is 'Love for all, hatred for none'. It began in Pakistan and has now moved to London. This group promotes a message of worldwide peace by speaking out against terrorist activities in the name of Islam and fighting for human rights.

	Section C: Causes of conflict and responses		
Causes of war		Causes of war	
	- There may be two religious groups that want to be dominant - A country may be largely one religion but the country as a who is a different religion - There are differences within a religion and one religious group attacks another for having different beliefs.		
because of differing cultures. - Ethnic cleansing - the belief that minority grou		- Ethnic cleansing - the belief that minority groups should be removed from a country (e.g. genocide in Rwanda) - Tensions between ethnic groups	
	- Most Muslims helie	- Access to oil reserves in a country	

- Most Muslims believe that Muslims must fight if they are attacked as instructed in the - Access to water (e.g. Sudan)

Qur'an and so the war is just. The Prophet fought in wars for self-defense; therefore, so should Muslims.

- Economic problems in one country can lead to economic refugees looking for food and work elsewhere and this can lead to

- Muslims must be clear about the causes of the conflict. They cannot be classed as the conflict. aggressor and so would not be involved in a war to take resources from another, to force

others to become Muslim, to change the political leadership or a country or to change the culture.

Atheist and Humanist responses to the causes of war:

- Make United Nations stronger so that it can end wars with a peacekeeping force. Many Humanists are pacifists and so wouldn't fight in war
- Many Humanists believe that as religion is the root core of many conflicts that we should eradicate religion.
- Some atheists would agree that they should fight in a just war.

Concepts you have seen before: Justice, forgiveness, peace, vicegerents, reconciliation, nature of Allah

Year 11 Religious Studies – Islam – Peace and Conflict (2)



Section A: Key Vocabulary		
Tier 3 vocabulary	Definition	
Pacifism (n)	The belief that fighting or violence is never the correct response to conflict	
Jihad (n)	To struggle	
Lesser Jihad (n)	Holy war or the struggle to defend	
Greater Jihad (n)	Personal struggle to follow the teaching of Islam and resist evil	
Passive resistance (n)	Non-violent opposition to authority	
Just war	A war that is fought for the right	
(n)	reasons and in the right way	
Holy War (n)	A war that is fought because of religious differences	
Harb al- Muqadis (n)	Holy war in Islam	
Tier 2	Definition	
vocabulary	Definition	
Just (n)	Fair	
Genocide (n)	The deliberate killing of a large group of people from a particular nation or ethnic group.	
Last resort (n)	After all other methods have been tried	
Proportionate methods (n)	Using weapons of the same factor as those used against you	
Crusade (n)	A war for a religious or moral purpose	

Section B: Pacifism

Muslims and Pacifism

- Lesser Jihad is the struggle with forces to remove evil from society. The meaning of the Arabic term jihad is struggle. This means that there is no concept of pacifism or 'turning the other cheek' in Islam.

But there is a tradition of passive resistance based on the story of Moses and Aaron, where they refuse to fight the Israelites who rebelled against God (Surah 5:28)

There is also support from the Qur'an opposing the use of violence, "if anyone kills a person – unless in retribution for murder or spreading corruption in the land – it is as if he kills all mankind."

Arab Springs 2011

Democratic movements in Middle Eastern countries were based on pacifism and passive resistance. Muslims protesting against the lack of democracy in their countries did so in a non-violent way. (e.g. demonstrations in Tahrir Square in Cairo which led to the overthrow of President Mubarak of Egypt)

Humanism and Pacifism

- Humanists are opposed to war.
- They helped to set up the United Nations.
- Human life is a lot more valuable if you do not believe in life after death.

Concepts you have seen before:

Justice, Ethics, Shari'ah law, Life and nature of the Prophet Muhammed

Section C: Just War Theory and Holy War

A Just War is a war that is fought for the right reasons and in the right way. Although war is never good, it is agreed that in some cases wars are unavoidable. The theory is linked with St Thomas Aquinas.

С	Cause	The cause of the war is just e.g. self- defence or remove an injustice (genocide)	
L	Last	It is a last resort - all other non-violent methods of ending the conflict have been tried and failed.	
Α	Authority	Fought by the authority of the United Nations.	
Р	Peace	Fought with the intentions of restoring peace.	
5	Success	Reasonable chance of success.	
A	Avoid	Methods used avoid killing civilians (any methods that deliberately target civilians to instil fear are banned).	
Р	Proportionate	Proportional methods are used e.g. not use nuclear weapons on a country that	
Islam and Just War (Lesser Jihad)		invaded a small island.	

Muslims follow slightly different ideas about what makes a war just. They consider:

- Must be fought for a just cause
- It must be fought to bring about the end goal of good
- It must be a last resort
- Innocent people should not be targeted or killed "Do not kill any child, any woman, or any elderly or sick person" Hadith

Harb al-Mugadis (Holy War in Islam)

Harb al-Maqadis is a 'Holy War' or a war that is fought because of religious differences. Muhammad and his followers were involved in a number of Holy Wars, including the Battle of Badr, the Battle of Uhud and the Conquest of Makkah.

According to Shari'ah, a Holy War can be fought:

- To defend faith



Conflict (3)



Se	ction A: Key Vocabulary	Section B: Weapons	of Mass Destructio
Tier 3 vocabulary	Definition	Benefits of WMD	Problems with WMI
Utilitarianism (n) Sanctity of life (n)	Actions are right if they are useful or for the benefit of a majority Life is God-given and should be respected	- Many people believe that the simple threat of them has prevented further world wars (mutually assured destruction – hesitation to attack due to threat of	- Deliberately target innocent civilians - Threaten the world wit extinction (a nuclear wall between USA & Russia
Ummah (n)	The Muslim Community	nuclear attack). - Biological and chemical weapons do not destroy	would virtually leave the earth uninhabitable) - Chemical and biologica
Haram (n)	That which is not permitted buildings so they are an efficient way to destroy an		weapons are difficult to deliver effectively. No or knows the effect that lar
Khalifah (n)	A representative and steward of Allah	enemy themselves but not the enemy's infrastructure.	quantities could have on atmosphere.
Moral evil (n)	Wrongful actions done by humans which cause suffering		- These uncon released.
Restorative Justice (n)	Justice which focuses on bringing the victim and offender together	Nuclear, chemical and biological weapons are reference as weapons of mass destruction. Muslim attitudes to WMD: Just War teachings make it difficult for Muslims to	
Tier 2 vocabulary	Definition		
Weapons of Mass Destruction (n)	Weapons which can destroy large areas and/or large numbers of people and/or large numbers of people		tailed rules about genocide and killing of
Nuclear weapons (n)	Devices that explodes through a nuclear reaction releasing a huge amount of energy	Humanists and WMD: No H	umanist would accept t
Chemical	Weapons that use chemicals such as nerve	deterrent against other countries, even if there wa	

and blood agents to kill or disable enemies

Criminal acts intended to provoke a state of terror in the public for political

A war for a religious or moral purpose

or religious purposes

- /ith
- cal one arge on the

rred to

the never any intention to use them.

Concepts you have seen before:

Justice, ethics, Implications of the Sanctity of life, Nature of God, teachings and actions of the prophets

Section C: Issues surrounding conflict

Muslim views on violence:

Muslims believe in a civilised society and against the use of violence unless under legal authority because:

- Islam regards using violence without just cause as sinful.
- Islam teaches that all Muslims are members of the Ummah and have equal treatment and respect.



- Prophet Muhammad said: "Every Muslim is a brother to every Muslim".

Terrorism: The word 'terrorism' is based on the Latin term 'to frighten'.

Some of the most notorious acts of terror include:

- 9/11 attacks on the twin towers in NYC and the Pentagon in Washington in September 2001.
- 7/7 attacks in London in July 2005 where three bombs were detonated on public transport throughout the city.
- Manchester concert in May 2017 where a bomb was detonated at the end of an Ariana Grande concert killing 22 predominantly young Ariana Grande fans.

Muslim views on terrorism:

Just War teachings make it simple that terrorism is not acceptable!

- Islam prohibits the killing of innocents. The Prophet Muhammad said "Do not kill women or children or non-combatants and do not kill old people or religious people."
- The Prophet said that there are people who kill in the name of Islam and go to hell. When asked why, he answered, "Because they weren't fighting truly for the sake of God."

How Muslims how worked to overcome these issues:

The Muslim Council of Britain has:

- Paid for advertisements in the national press condemning terror in the name of UK Muslims.
- Encouraged community efforts to report criminal activities and co-operate with

weapons (n)

Terrorism (n)

Crusade (n)

History—Year 11—Autumn 1— Modern Medicine

T' 2	Key Vocabulary
Tier 3	Definition
vocabulary	
Alternative	Different therapies which are not considered typical
medicine (n)	medical treatments. E.g. hypnotherapy, aromather-
	apy, acupuncture, and homeopathy.
Antibiotic (n)	A medicine that you take which kills bacteria in your
	body. E.g. penicillin is an antibiotic.
Homeopathy	When a patient takes a medicine (e.g. plant, animal,
(n)	minerals soaked in alcohol), which causes similar
	symptoms to their illness.
National Insur-	This 1911 Act created National Insurance in Eng-
ance Act (n)	land.
School Meals	This 1906 Act allowed local councils to provide
Act (n)	school meals, with poor children getting a free
	meal.
Aromatherapy	The use of essential oils from flowers, fruits, roots
(n)	and leaves. The oils are inhaled or massaged into
. ,	the skin .
Hypnotherapy	Hypnotising the patients to relax them and relieve
(n)	them of stress,
Acupuncture	Using fine needles placed at key points around the
(n)	body. A Chinese method that has been used to
	many years.
The Boer War	A war between the British and the Boers in Africa,.
(n)	It took place in 1899.
Welfare State	A new labour government incentive to improve the
(n)	health of British people.
Tier 2	Definition
vocabulary	
National	This was a system of health insurance for industrial
Insurance (n)	(factory) workers.
Pension (n)	A payment made by the government to the elderly
	once they retire from working.
Transplant (n)	Taking living tissue or an organ from one person,
	and implanting (putting) it in another person.
Eradicated (n)	To get rid of.
Prevention (n)	To stop something from happening.
Cure (n)	To fix something.
	4
DNA (n)	A self-replicating material that is present in nearly
DNA (n)	A self-replicating material that is present in nearly all living organisms as the main constituent of chro-

Section 2: Important ideas

The Liberal Reforms

Reform 1: 1906 Free School Meats Act provides free school meals for poor students for the first time.

Reform 2: 1907, School Medical Service set up—free medical inspections, followed later by free treatment.

Reform 3: 1908, Children and Young Person's Act introduced; children became 'protected persons', which means parents are breaking the law if they neglect their child.

Reform 4: 1908, Old Age Pensions are introduced, paid for by taxes.

Reform 5: Britain's first job centres are built.

Reform 6: 1911, the National Insurance Act is introduces unemployment benefits, free medical treatment, and sickness pay.

The impact of war on surgery

World War One

Blood transfusion– In the 1900 scientists worked out how to successfully transfer blood.

Karl Landsteiner discovered blood groups.

X-rays were discovered in 1895–during war this became so important.

Plastic surgery– A special unit to transplant skin and treat men suffering from severe facial wound.

World War Two

Heart surgery— Dwight Harken cut into a beating heart and used his bare hands to remove bullets and bits of shrapnel.

Penicillin- was used to prevent infection.



Concepts you have seen before: barber-surgeons, surgery, public health, government, laissez-faire, National Health Service.



Section 3: Facts/Context/Historical relevance/dates

relevance/dates			
Key Dates:			
1948	Free vaccine for TB in the UK		
1952 First kidney transplant is carried ou the UK			
1954	Free vaccine for polio in the UK		
1960	First pacemaker fitted in the UK		
1964	Free vaccine for measles in the UK		
1968	First heart transplant in the UK		
1969	Free vaccine for rubella in the UK		
1970	Roy Calne develops cyclosporine which prevents organs from being rejected.		
1972	Hip replacements are developed in the UK		
1978	Louise Brown becomes the first test tube baby born through IVF in the UK		
1980	Smallpox is officially declared as eradicated, the only human disease where this has been possible so far.		
1986	Davina Thompson becomes the first heart, lung and liver transplant in the UK.		
1996	Dolly the sheep was cloned in Scotland		
2003	Human Genome Project was complete, complete mapping of human genes		
2006	First HPV vaccine approved.		
2006	First partial face transplant is carried out		
2008	First full face transplant carried out		

History—Elizabethan England and Government—Autumn Two



Tior 2 vocabular:	abulary	
Tier 3 vocabulary	Definition	
Royal Court (n)	The nobles, advisors and others who surrounded the	
	monarch.	
Personal	Where politics and government revolve around the	
monarchy (n)	monarch and their royal court.	
Progresses (v)	Royal tours or visits by the Queen and her court, to	
	the stately homes of nobles.	
Patronage (n)	Using wealth, power and influence to promote	
	individuals who the owe their patrons (e.g. the	
	Queen) loyalty.	
Divide and rule	Where Elizabeth appointed (hired) men to her Privy	
(phrase)	Council that had different opinions and would	
	compete for her affection/attention.	
Secretary of State	The leader of the Privy Council; a very powerful	
(n)	position.	
Privy Council (n)	A monarch's private councillors.	
Justice of the	A Justice of the Peace (JP) is a magistrate (officer)	
Peace (n) who enforces laws in minor cases.		
Tier 2 vocabulary	ulary Definition	
Catholicism (n)	A form of Christianity, known as the Roman Catholic	
	Church. The Pope is in charge.	
Protestantism (n) A form of Christianity , which grew in Europe		
	the Reformation from 1517-1648.	
Church of	The Protestant Church in England after Henry VIII	
England (n)	broke with Rome in 1529.	
Annul (v)	To declare something invalid, such as a marriage.	
House of Lords	This is the upper house of Parliament in England of	
(n)	nearly 100 lords, bishops and judges.	
House of	This is the lower house of Parliament of about 450	
Commons (n)	men. They were mostly gentry who owned land, but	
	some were lawyers and government officials. They	
	were elected by the wealthy.	
Monopoly (n)	A royal license giving individuals the right to sell or	
	make a product. No one else could sell or make that	
	product.	
Militia (n)	A non-professional army raised to fight for a	
. ,	particular cause e.g. to defeat a rebellion.	
Imprison (v)	To be put in prison.	
Exile (v)	Being banned, barred or excluded from your country.	
	To restore or repair something, often a building.	

Section B: Key Individuals

Elizabeth I: Profile

- Her father was King Henry VIII, and her mother was Anne Boleyn. She was beheaded.
- She had two siblings: her brother Edward VI who was a Protestant, and her sister Mary I who was a Catholic.
- Elizabeth reigned as Queen of England from 155 A 45 year reign.
- Elizabeth was Protestant, inherited a religiously divided England, and never married.
- Elizabeth's lack of marriage led to a succession crisis; her Privy Council did not know who would take over as monarch when she died.

Robert Dudley: Profile

- Born in 1533, his father had been executed at the beginning of Mary Is (Bloody Mary's) reign as Queen.
- Like Elizabeth I, he spent much of Mary's reign imprisoned (locked) in the Tower of London.
- A childhood friend and favourite of Elizabeth, he was good looking and there were many rumours of romance between Dudley and Elizabeth.
- A member of the Royal Court, he was made Master of the Horse, making him personally responsible for Elizabeth's safety.
- He became a Privy Councillor in 1562.
- Elizabeth gave Dudley her favourite cas Castle, in 1563.
- He was given the title of Earl of Leicester in 1564.

Section C: Timeline		
1509- 1547	Henry VIII is King of England.	
1532-34	Henry VIII Breaks with Rome and England moves from being a Catholic country to Protestant.	
1559	Elizabeth I becomes Queen of England after her brother Edward VI and Mary I die.	
1559	Elizabeth holds her very first Parliament session.	
1559	A rebellion in northern Ireland against English rule occurred.	
1562	Elizabeth I nearly dies of smallpox and Parliament became increasingly worried that she would die without an heir.	
1562	Robert Dudley is made a Privy Councillor.	
1566	Parliament started to discuss potential marriage matches for Elizabeth. Parliament ignored Elizabeth's orders to stop discussions, and Peter Wentworth was imprisoned.	
1562	Mary, Queen of Scots was exiled from	

Heir—a person who inherits a role or title e.g. becoming the monarch of a country.

Monarch—a king, queen or emperor.

Pope—Head of the Catholic Church.

Archbishop—the most senior Church figure in England.

Subject: Geography Paper 2: Human Geography Section C: Challenge of resource management

S	Section A: Key vocabulary	Section B: Significance and inequalities of resources	Section C: Overview of UK resources	
Tier 3	Definition	All resources are key for human wellbeing. They lead to social and	Food	
Agribusiness (n)	Large scale commercial farming	economic benefits which all increase the standard of living.	Food in the UK used to be seasonally and locally sourced. We now have globally	
Energy mix (n)	The range of energy resources in a region or country	Food Significance:	sourced foods all year round Higher disposable income and increased	
Local food sourcing (n)	A method of good production and distribution that is local	 Calories provide energy Availability depends on climate, soil and level of technology Malnourishment can lead to disease and death (more than 1 billion people are malnourished and 2 billion undernourished) 	demand for a greater choice has led to 47% of food being imported (2013). Food is grown more cheaply elsewhere.	
Resource man-	The control and monitoring of resources	Obesity is an issue in some areas	Positives: jobs and wages for people in LICs, higher taxes, increased quality of life	
agement (n)	so that they do not become depleted or exhausted	Inequalities: UK consume 3200 calories per person per day; Somalia consume 1580 calories per person per day	Negatives: less land for locals, high water use and exposure to chemicals	
Tier 2	Definition	Areas of greatest population growth have highest levels of	Organic food has been produced since the 1990s due to increase in demand. This is	
Deficit (n)	Having a shortage or not enough	 undernourishmen't Demand depends on changing diets and increasing population 	worth £2billion to economy every year.	
Carbon footprint	A measurement of all the greenhouse	Supply depends on climate, soil and level of technology	Increased carbon footprints due to production and transportation of food. 17% of UK carbon	
(n)	gases we individually produce	Water	footprint is food	
Food miles (n)	The distance covered supplying food to consumers	Significance: Used for survival, washing, food production, industry	The main aim of agribusinesses is large profits. These have large environmental impacts due to use of pesticides and fertilisers	
Fossil fuels (n)	A natural fuel formed in the geological	 Without clean, safe water, people can be stuck in a cycle of poverty 	Water	
Malnourishment (n)	past from the remains of living organisms Lack of nutrition; not having enough to eat	Inequalities: Fresh water is unequally distributed Global average is 1240 litres per day: Bangladesh is 896 litres	 Changes in demand for water due to increasing wealth, sanitation, population, industry. 70% increase in use in UK homes since 1970 	
Organic produce	Food produced using natural farming	 Global average is 1240 litres per day; Bangladesh is 896 litres per day; USA is 2483 litres per day Water scarcity can be physical or economic 	Water quality is managed by legislation, education campaigns, water treatment plants	
(n)	methods, which does not use chemical fertilisers or feed additives	1 in 5 people live in areas of water scarcity and 1 in 3 have no access to clean drinking water Energy	Supply and demand: highest population is in south east (area of defecit) and highest rain-	
Surplus (n)	Having too much of something; an excess	Significance:	fall is in north and west (water surplus)	
Water scarcity(n)	Lack of sufficient or safe water	Traditionally, energy comes from oil, coal and wood but there are now many sources	80% of southern England relies on groundwater; 50% of country are impacted by water quality	
Water footprint (n)	The amount of water used by each person everyday	Used for production, heating, transport and water supply	Government proposed water grid to transfer water between areas of surplus and deficit.	
Water transfer (n)	Moving water across long distances to places with water shortages	 Inequalities: Richest billion people use 50% of the energy; poorest use 4% Some countries do not have their own sources of energy 	This would provide people with reliable water supply, however it is costly, CO2 is released in pumping water, displaces local communities and involves constructing dams.	

Subject: Geography Paper 2: Human Geography Section C: Resource Management—Energy

S	ection A: Key vocabulary	Section B: Energy in the UK	Section C: Global energy supply
Tier 3 Biomass (n)	Definition Renewable organic materials that can be burned to produce energy, e.g. wood, crops, waste	Biomass and biofuels 10% 2% Coal 2020 Hydropower 3%	Factors affecting energy supply: Climate Geology Environmental conditions
Energy gap (n)	The difference between a country's rising demand for energy and its ability to produce that energy from its own resources.	Nuclear 6% In 1970, 91% of energy was from Oil	Costs of exploitation and consumption Technology Political factors Impacts of energy insecurity: Construction of energy insecurity:
Energy exploitation (n)	Developing and using energy resources to the greatest possible advantage, usually for profit.	 UK investing in renewable energy e.g. solar energy and 	 Exploration of environmentally sensitive areas, e.g. cold environments, tropical rainforest Agribusinesses us e vast amounts of energy which increases food prices
Tier 2	Definition	subsidies given by the government. Natural gas has been a recent focus	Similar to food production, factories and industry also require a
Energy conservation (n)	Reducing energy consumption through using less energy and becoming more efficient in using existing energy sources.	Oil and gas was discovered in the North Sea in 1980. This has been exploited so reserves are now decreasing.	 lot of energy which increases energy prices Potential for conflict where demand exceeds supply, e.g. conflict between countries over reserves or transporting across borders.
Energy security (n)	Uninterrupted availability of energy sources at an affordable price.	 EU regulations on CO2 emissions has also led to decrease in use of fossil fuels 12% less energy used in homes since 1970 and 60% less 	Extracting fossil fuels: Alaska oil and gas Petroleum was found in Prudoe Bay in 1968. The Trans-
Geothermal energy (n)	Energy generated by heat stored deep in the Earth.	in industry, due to energy efficiency, public awareness and increasing costs	Alaskan pipeline pumps oil 1287km through rough terrain and mountains then transported by tanker to mainland USA.
Hydro electric	Electricity generated by turbines that are	Issues with the exploitation of resources	Advantages Disadvantages
power (n) Nuclear power (n)	driven by moving water. Nuclear energy uses fuel made from mined and processed uranium to make steam and generate electricity.	 Cheaper to import coal into the UK than to mine it Nuclear sites being decommissioned and all current plants will close by 2023 – issues of contamination and disposal of nuclear waste 	 Employs 110,000 people Brings \$14 billion to the state's economy yearly Guarantees oil for the USA without relying on Risk of breakage to the pipe caused by cold or earthquakes Pipeline prevents caribou migrating Cost \$8billion to construct Indigenous Inuit people were displace
Renewable energy sources	is used; it recurs and cannot be exhausted	 Economic issues – costs, jobs, set up costs, research, reliability 	of some state of the state of t
(n) Solar energy	(for example wind and tidal energy). The Sun's energy exploited by solar panels, thetics, emissions, pollution, radiation leaks		Moving towards a sustainable resource future: Decrease individual energy use and carbon footprints
(n)	collectors or cells to heat water or air or to generate electricity.	Global energy patterns	 Designing sustainable homes, workplace and transport Reduce demand
Sustainable development (n)	Development that meets the needs of the present without limiting the ability of future generations to meet their own needs.	 Major consumers are also major producers, usually energy secure HICs Low consumers consume the least, mostly energy insecure HICs Local renewable energy scheme in Nepal (LIC) 	
Sustainable energy supply (n)	Energy that can potentially be used well into the future without harming future generations	 Lowest risk of energy security: Canada, Russia, Middle East, Indonesia, Australia Highest risk of energy security: Africa, Asia, South America 	Small landlocked, mountainous country; has no significant deposits of fuel. Needs to supply energy to 28 million people but power cuts lasting 10 hours a day are common. Government have implemented a micro-hydro plant scheme, which diverts water from streams and rivers through turbines.
Wind energy (n)	Electrical energy obtained from harnessing the wind with windmills or wind turbines.	Reasons for increasing energy consumption: development, rising population, technology	This is low cost, improves quality of life and provides water to new industries (metal and furniture workshops, poultry farms).

Section A: Key terms

Tier 3 Vocab Recap:

Plural—Preterite tense—Modal verb—Direct Object Pronoun Irregular verb—Conditional tense—Imperfect tense

Tier 3 Vocabulary	Definition	
Stem changing verbs (n)	Stem-changing verbs in the present tense use the same endings as regular -ar, -er, and -ir verbs when conjugated, but undergo a vowel change in the last syllable of the stem.	
Reflexive verbs (n)	A verb is reflexive when the verb's subject is the same as its direct object.	

	-	
Tier 1 Key Nouns		
el aceite de oliva (olive oil)	los lácteos (dairy products)	
el ajo (garlic)	los pimientos (peppers)	
el atún (tuna)	las cebollas (onions)	
el azúcar (sugar)	las zanahorias (carrots)	
las gambas (prawns)	las lentejas (lentils)	
el queso (cheese)	las legumbres (pulses)	
las chuletas de cerdo (pork chops)	las judías verdes (green beans)	
el cordero (lamb)	el gazpacho (cold soup)	
la ternera (beef)	la ensalada (salad)	
el pollo (chicken)	los refrescos (soft drinks)	
la mantequilla (butter)	el té / el café (tea/coffee)	
la mermelada (jam)	la cerveza (beer)	
log guisantes (peas)	el vino (wine)	

Spanish— De Costumbre - Year 11

Section B: Key Grammatical Points

Reflexive verbs in the preterite tense (simple past tense)

A verb is reflexive when the verb's subject is the same as its direct object. When a verb is reflexive, the direct object and the subject are the same. This means that someone, or something, performs an action on themselves.

		-AR verbs	-ER/-IR verbs
Myself	Me	duch é	vestí
Yourself	Те	duch aste	vesti ste
His/her/itself	Se	duch ó	visti ó
Ourselves	Nos	duch amos	vesti mos
Yourselves	Os	duch asteis	vesti steis
Themselves	Se	duch aron	visti eron

Note that the –ar verbs that change in the stem in the present tense are not stem changing in the preterite tense.

Me desperté — I woke up

Me levanté — I got up

Me vistío — I got dressed

Me duché — I showered

Me peiné el pelo – I brushed my hair

Me maquillé—I put on make-up

Me lavé los dientes—I brushed my teeth

Me acosté—I went to bed

Soler + infinitive

To add variety to your language, use 'soler' + infinitive to expressed what you 'usually do'/ 'tend to do'.

Suelo desayunar a las siete **Sueles** jugar al baloncesto los lunes (You usually play basketball Mondays) Suele hacer los deberes **Solemos** cenar a las seis **Soléis** estudiar en la biblioteca Suelen pasar las vacaciones en...

(I usually have breakfast at 7) (He/She usually does homework) (We usually have dinner at 6) (You all usually study in the library) (They usually spend hols in/on...)



Section C: EATTACO vocabulary					
Tenses /verbs					
Dolerse	To hurt yourself				
Me duele (n)	It hurts me				
Te duele (n)	It hurts you				
Le duele (n)	It hurts him/her				
Nos duele (n)	It hurts us				
Os duele (n)	It hurts you (pl)				
Les duele (n)	It hurts them				
Reflexive verbs	in present tense				
Me despierto	I wake up				
Me levanto	I get up				
Me visto	I dress myself				
Me peino	I comb my hair				
Me ducho	I shower				
Me lavo los dientes	I brush my teeth				
Me acuesto	I go to bed				
Opii	nions				
Preferiría	I would prefer				
Quisiera	I would like				
Sería	It would be				
Lo malo es	The bad thing is				
Lo bueno es	The good thing is				
Opino que	In my opinion				
Times Expressions					
Entre semana	During the week				
Los fines de semana	At weekends				
Enseguida	Straight away				
Temprano	Early				
Los lunes	On Mondays				
Ayer	Yesterday				

Section A: Key terms					
Tier 3 Vocabulary	Definition				
Absolute superlative (n)	An adjective that expresses an exceptional property without making a comparison				
	E.g. to say something is <u>extremely/</u> <u>really</u>				
The passive (n)	A verb form whose grammatical subject is subjected to or affected by the action represented by that verb				
Tier 1 Key verbs in the	passive (present tense)				
Es (muy) conocido	It is (well) known				
Es celebrado (en)	It is celebrated (in)				
Es hablado (en)	It is spoken (in)				
Es repetido	It is repeated				
Tier 1 Key verbs in th	e passive (past tense)				
Fue inventado	It was invented				
Fue introducido	It was introduced				
Fue preparado	It was prepared				
Fue fundado	It was founded				
Fue escrito (por)	It was written (by)				
Fue construido	It was built				
Fueron lanzados	They were thrown				
Tier 1 Key Questions					
¿Quieres ir a un festival español?	Do you want to go to a Spanish festival?				
¿Crees que la Navidad es in Proposition de la Navidad es	Do you think Christmas is important?				

Spanish— De Costumbre - Year 11

Section B: Key Grammatical Points

Absolute superlatives

To say something is **really / extremely** (+adjective), use the absolute superlative. In Spanish, you simply **add** –*isimo* to the end of the adjective - but don't forget to still make sure the ending agrees with the noun). E.g.

Este trabajo es facil**ísimo**Esta asignatura es facil**ísima**Los ejercicios son facil**ísimos**Las matemáticas son facil**ísimas**

If the adjective normally ends in a vowel, remove it before adding the ending. E.g.

interesante—interesantísimo bueno—buenísimo aburrido—aburridísimo guapo—guapísimo malo—malísimo

Some words are little irregular:

rico—ri<u>qu</u>ísimo nuevo—n<u>o</u>vísimo feliz—feli<u>c</u>ísimo

Expressions + infinitive

There are certain phrases in Spanish that need to be followed by an infinitive verb. We saw 'soler' + infinitive on the previous page, but here are some more useful phrases:

deber + infinitive — to ought to/should (Debo beber más agua) (Puedo ir al cine este sábado) **poder + infinitive** — to be able to querer + infinitive — to want to (Quiero aprender francés) (Para estar en forma...) para + infinitive — in order to on (doing something) (Al llegar al festival....) al + infinitive sin + infinitive — without (doing something) (Sin dormir...) antes de + infinitive — before (doing something) (Antes de ir al...) después de + infinitive — after (doing something) (Después de hacer...)



Section C: EATTACO vocabulary					
Adjectives					
rico	rich				
picante	spicy				
dulce	sweet				
sabroso	tasty				
asqueroso	disgusting				
salado	salty				
refrescante	refreshing				
típico	typical				
frío	cold				
caliente	hot				
sencillo	easy				
sano	healthy				
variado	varied				
distinto	different				
muy conocido	well known				
precioso	pretty				
barato	cheap				
caro	expensive				
triste	sad				
atrevido	daring				
impresionante	impressive				
animado	lively				
inolvidable	unforgettable				
único	unique				
repetitivo	repetitive				
imaginativo	imaginative				
sucio	dirty				
limpio	clean				
roto	broken				

Year 11 Sociology—Autumn Term— Crime



ey Vocabulary
Definition
A phenomenon from the Kitty Genovese case that
suggests people are less likely to report a crime if
there are several witnesses
A survey, such as the Crime survey for England and
Wales, asks a sample of people which crimes have
been committed against them to try and uncover the
hidden/ dark figure or crime
The idea that crimes that are recorded by the police
are only 'the tip of the iceberg' and in fact most
crimes committed do not make the crime statistics
A survey that is given to possible criminals in an
attempt to understand the real number of crimes
committed in society
When an organisation and its policies are racist, for
example the stop and search procedures of the po-
lice
A scheme introduced by the metropolitan police in
an attempt to gain a more representative and diverse
police force. If police officers successfully introduced
a black or Asian candidate o the force thy received a
bonus of £350.
A policy that favours individuals who belong to
groups who have been previously discriminated
against. This has been practiced in police interviews
and other interviews for councils and government.
Definition
When a crime is seen or witnessed
When a crime has been detected, reported and then
recorded by the police
When a crime has been witnesses or detected and
the policed are informed
How we are taught norms and values. Some sociolo-
gists suggest that women are less likely to commit
crime due to socialisation in the family and work-
place.
How we are controlled in society. Some sociologists
suggest that women commit less crime due to the
fact they are controlled more in the family and the
workplace.
·
workplace.

Section 2: Important ideas in Crime

Key concepts

Questions:

1. What are the main factors to support the idea that women are less likely to commit crime?

2. What are the main factors to support the idea that women commit as much crime as men but these crimes do not get recorded?

Answers:

1.socialisation in the workplace and at home. Women are taught from an early age to be quiet and sensitive whilst boys are taught to be aggressive and loud. Women are also socialised into being the main carer of children, taking responsibility for childcare thus are less likely to commit crime due to having their children with them more. Also, social control at home and in the work place for example, women are more likely to take a lower responsibility position and so therefore are more likely to be managed and watched.

2. material deprivation —women are more likely to be in poverty due to having dependent children, more likely to be in a lone parent household and lower paid jobs so therefore turn to crime. Types of crime—women are more likely to commit crimes such as theft or crimes related to prostitution which are often hidden or ignored. Chivalry theses— the idea that women use their femininity to their advantage with police and the courts as they are usually run by men. This means that they are let off with crimes or dealt with more leniently by the courts.

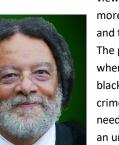
However... double deviancy/ demonising of women

Section 3: Case Studies and Theories



Pollak

Chivalry Thesis—the criminal justice system is 'paternalistic', this means that the courts and the police treat men more harshly than women if the same crime is committed. The criminal justice system has a stereotypical view of females as helpless and naïve. They are therefore more likely to treat them less harshly.



Gilroy



Stuart Hall

view that black people commit more crime than white is a myth and the statistics cannot be trusted. The police use negative stereotypes when dealing with black people. If black people do become involved in crime it is not surprising as they need to defend themselves against an unjust society.

Hall noticed the way that the crime

The myth of black criminality—the

Hall noticed the way that the crime of mugging became a moral panic in the 1970s Muggings were reported many times in the early 1970s and the exaggerated reporting became a focus for public concern. This took the attention away from the country's economic problems at the time an these 'muggings' were associated with immigrants by the media. Immigrants were therefore used as scapegoats for society's problems.

Year 11 Childcare—Exam paper Unit 1, An introduction to working with children aged 0-5 years



Statutory: Term time, open mon to fri 9am = 3.30pm, staff get paid, free service, offers education and knowledge, everyone has a DBS check, follows a National Curriculum or FYF5, compulsory, run by the government and its inspected by Ofsted. Private: Throughout the year, mon to fri = 7am-7pm, long hours, staff get paid, you have to pay for the service, offers education and care, business for profit, will follow National Curriculum or FYF5, inspected by Ofsted. Private: Throughout the year, mon to fri = 7am-7pm, long hours, staff get paid, you have to pay for the service, offers education and care, business for profit, will follow National Curriculum or FYF5, inspected by Ofsted, everyone DBS checked. Voluntary: Open term time only, usually one morning or afternoon its open limited hours, free service (may pay a small contribution) staff don't get paid, they are volunteers, community service, or social service (parents get together with children socially) D3: Preparing for Placement Communication with the setting Timekeeping and attendance Diversity Communication with the setting Timekeeping and attendance Diversity Positive attitude Paperwork Procedures Responsibilities of an EYW Working within the EYFS statutory framework Acting professionally and as a role model Confidentiality—including the use of social media/ mobiles Awareness of policies and procedures Managing children's behaviour Understanding the need for equality and diversity Safeguarding Recognising Awareness of policies and procedures Managing children's behaviour Understanding the need for equality and diversity Safeguarding Recognising Awareness of policies and procedures Managing children's behaviour Understanding the need for equality and diversity Safeguarding Recognising Recognising Recognising Recognising Recognising Recognising Recognising Recognising when to refer to others Children's safety and well-being refer to a senior staff member Liaising with parents Completing setting paperwork Fire drill, Collection/ register, securi		DE 11	1			
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DBS: Disclosure and barring service	DBS: Disclosure and barring service	sive so that every child can be involved	very child can be involved	maps.	maps.	
The Law • allow time for children to speak privately about their thoughts and feel- vately about their thoughts and feel- Visual Learning through looking/ seeing – Have a strong focus on what they see, are good at remembering	_		* 1540			
ings what they read and write – charts, pictures,		ings		what th	they read and write – charts, pictures,	
children 0-5 yrs. Focus on learning development	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1		presen	ntations and printed.	
speak in a group about their thoughts and care. Speak in a group about their thoughts and feelings Auditory Learning through hearing – information is easier to understand when they hear it. Podcast, listening to	and care.		Audi			
Equality Act Protects you from discrimination/ unfair treatment based on personal characteristics. • work in effective partnership with the child's family			ive partnership with the	instruc	ctions	
Children's Safeguarding, keeps children safe and healthy. • ensure home routines or practices are followed in the setting. Kinaesthetic Safeguarding, keeps children safe and healthy. Learning through doing/ touching – learn in a practical way. Role play, making mind maps, making charts.	Children's Safeguarding, keeps children safe and healthy.	ensure home routines or practices are		tic tical wa	vay. Role play, making mind maps, making	

30



Year 11 Childcare—Exam paper: Unit 2, Development and well-being 0-5 years

•					
Introduction D1: Child Development					
Develop- ment	Key Words				
Physical	Movement, Balance and co- ordination, fine and gross motor				
Language	Talking, listening and understand- ing reading and writing for older children, receptive, expressive.				
Intellec- tual	Thinking, memory, problem solving and understating concepts – such as time, colour and numbers				
Social and emo- tional	Attachment, friendships, relationships with others, managing feelings, confidence and self control.				

Why we observe children—how to observe sup-
port development

- Checking a child's development
- Planning to support development and children's interest
- Understanding children's behaviour
- Sharing information with parents
- Providing information to professionals

Confidentiality: EYW cannot pass on information about children's' development or their family to other people unless they have permission to do so. Observations/ assessments need to be kept safe in a folder once completed. There is a need to know basis.

Accuracy: Observations/ assessments need to be kept up to date. As the child may not gain the support needed. They may be given play opportunities and activities that are not suitable for them. This may not allow the child progress and feel frustrated.

D2/D3: Advantages and disadvantages for each observational method						
Narra- tive	Narrative— cover all areas of develop- ment (holistic)	A: No preparation, can be used to observe more than one area of development D: Hard to write everything quickly,				
		can be hard to accurately record				
l <u>.</u>	Focus on one are of devel-	A: easy to fill in, can be repeated to see progress.				
Checkl ist	opment	D: Observer may come to a different conclusion, doesn't show quickly or confidence.				
	Behaviour	A: Patterns and triggers in behaviour, check if strategies are working.				
Event		D: may not see the behaviour, forget to complete the sheet.				
Time	Interests and concertation	A: Shows what people are doing over a longer period of time, looks at different aspects of a child's development.				
		D: Observe has to keep an eye on them all the time, incidents maybe missed, have to be organised.				
Socio-	Friendships	A: find out about children's friendships, useful for older children.				
gram		D: Can be unreliable, can only be used with older children.				
	D4: Factors a	D4: Factors affecting Development				
Personal, Biologica		Your inherited traits (what happened to you before and immediately after you were born)				
External/ Environ- ment		and how you grew up. They also vents and experiences that you have				

D4: Factors that affect development (External)						
Physical traits	Examples: Height, physical strength, body and face shape, eye colour.	-Adults give responsibility to taller childrenChildren not happy with the way they look, may lack con-				
Medical conditions	Examples: Diabetes, asthma, sickle cell	-Feeling poorly may stop children from joining inThey may feel different -May fall behind at school, due to having time off				
Learning disabilities	Examples: Autistic spectrum, dyslexia, ADD, ADHD	-may need more support to master skills. -children with social learning difficulties may find it harder				
D4	: Factors affecting develop	oment (Personal)				
Disabilities	Examples: Deafness, sight prob- lems, cerebral palsy,	-may need additional sup- port to join in. -they may feel different				
Love and interaction	Examples: Cuddles, time to talk, positive, being listened to.	-learn how to communicate with others				
Stimulation and play	Examples: seeing different places, experiences, being with adults and other children	-Learn quickly -opportunities to try out different things				
Physical conditions	Examples: warm house, outdoors, space to play, poverty, housing conditions.	-in a safe and warm house, less likely to be ill. -Develop physical skills, with				
Food and Food habits, healthy eating, sleep.		-healthy—less likely to be ill.				



Year 11 Childcare—Exam paper Unit 2, Development and well-being 0-5

D7: Transitions	D5/ D6: Ui	nderstand how everyday care, routines		Importance of a routine		
Separating from parents Arrival of a new baby		and activities support independence, health and wellbeing		Children fear the unknown Growing up—bodies changing	•	Routine helps with behaviour (power struggles)
Moving home Death or illness Family breakdown Arrival of a step parent or step brother/ sister Going to pre-school/ school Changing classes Effects of these transition on holistic development The impact on children depends on many things:	Sleep/ rest Physical activity Balanced	Sleep helps a child grow, learn new skills, repair cells, fights infections. Overtired— hard to cope, concentrate and listen and manage their feelings. Stronger hearts, healthy—physically and mentally, bones and muscle strength. Feel good, gain confidence, healthy appetite, helps digestion, helps sleep better Grow and survive. Drinking water or milk.	•	constantly Children need rest Handle change better when it occurs as part of a routine Unpredictable change, makes a child feel anxious Routine teaches a child how to manage themselves and their environments	•	Helps child to cooperate Children take charge of their actions/ activities Children learn the concept of looking forward to things Keeps children on a schedule Parents can make connections Helps parents maintain consistent expectations
The age of the child, how well prepared the child is, the type of transi-	diet	Energy to move, fight infections.		Promote learning opportunities		
tion, how well adults work together to support the child (key worker). -Physical development: (N: sleep, illness, lack of energy) (P: more space, experiences, opportunities) -Language development: (N: regress, hard to listen, withdrawn)	Suitable clothing	Warm for winter—cool and protect from the sun in summer. Footwear—correct size for development of feet and protection. Clean clothes, not be restrictive.	•	Social skills—take turns, peer group activity Promote independence— encourage hand washing at set times, before dinner, after toi-	•	show the child about independence and self-reliance. Establish healthy choices Makes a sense of the world
(P: wanting to talk, sense of responsibility, opportunity to expand vocab) -Intellectual development: (N:conversation, memory, interest maybe effected) (P: more stimulated, environment engaging), better opportunities to learn and understand the world)	Personal hygiene	Skin, hair, teeth clean. Fight infections. Washing hands to prevent infections/ spread of germs. Sun cream will be needed to protect skin from the sun. Dental decay and head lice can be avoided.	•	leting, playing outside Promote language through meal times—discussing the day Introduce behaviour/ simple vocab—'please and thank you' a	•	around them Children will copy adults— provide a positive role model EFYS can be linked to everyday care routines and track progress e.g. doing buttons and zips.
-Social and emotional development: (N: clinginess, attention seeking, defiance, lack of cooperation, anger, withdrawn, anxiety) Ways to support children through transitions	Safe environ-	Prevent accidents/ risk of injury. Child can play and explore in safety. Children learn about keeping themselves safe. Development can be affected. Children need a stimulating environment so they can see and do different things.	•	meals, snack times, circle time Adults uses everyday activities t EYFS (Early Year		
Key person role Sharing books	ments		•	THE EYFS provides: Quality and c working/ equality of opportunit		ncy/ secure foundation/ partnership
Visiting the setting Planning play activities that link to the transition Showing photographs Communicating—books, puppets, dolls etc. Providing play opportunities Providing reassurance	Inde- pendenc e and self care skills	Helps children gain confidence, build physical skills (hand-eye coordination), learn health and safety. Mange risks, self-settle, feeding themselves, social skills, getting dressed, choose clothes suitable, learning how and why to wash hands, understand the importance of being clean and cleaning teeth, learn to tidy away, recognising dangers.	•	The EYFS requirements: Areas of learning and development, early I goals, assessment arrangements, safeguarding. Overarching principles: Unique child, positive relationships, enablir ments, develop and learn in different ways and rates Areas of learning: Communication and language, physical development sonal, social and emotional development Specific areas: Literacy, mathematics, understanding of the world, arts.		uarding. sitive relationships, enabling environ ays and rates anguage, physical development, per- nt

Year 11 Art—Component 1

Section A: Key vocabulary				
Tier 3 Vocabulary	Definition			
Line the path left by a moving point. For exam pencil or a brush dipped in paint.				
Colour	the property possessed by an object of producing different sensations on the eye as a result of the way it reflects or emits light.			
Tone/Value	This refers to the lightness or darkness of something. This could be a shade or how dark or light a colour appears.			
Shape	an area enclosed by a line. It could be just an outline or it could be shaded in.			
Texture	This is to do with the surface quality of something, the way something feels or looks like it feels.			
Pattern	A design that is created by repeating lines, shapes, tones or colours			
Form	a three dimensional shape , such as a cube, sphere or cone.			
Tier 2 Vocabulary	Definition			
Analyse	examine (something) methodically and in detail, typically in order to explain and interpret it.			
Content	the message given by the piece of art. It involves the subject, the techniques used to make the piece, the colorus used, and anything that was used by the artist to make a statement and give a message.			
Process	Techniques that involve a series of actions or steps taken in order to achieve a particular end. Eg print-making.			
Develop	selecting ideas, visual elements, compositions and techniques from your initial work and using them in new ways.			
Investigation	Explore areas of visual art in great depth, through research and practical applications.			
Demonstrate	Show / prove/ present your understanding.			
Critical	expressing or involving an analysis of the merits and faults of a work of art . Questioning ideas and assumptions.			
Sources 33	A primary source is one that you study directly from first-hand experience. Eg and object or photograph you have taken yourself. A secondary source is material produced by others. Such as images find online or in magazines.			

Section B: Analysing Artwork					
AO1: Develop Ideas through investigations, demonstrating critical understanding of sources.					
Analysing Art work	Showing your understanding of how an artist uses the formal elements to convey a meaning or message				
CONTENT Looking at the sub- ject of the work	What is your first response to seeing this work? What is it? What exactly can you see? Describe it. What do you think the work represents? Is there a title? Does that change the way you see the work? What is the theme? Landscape, portrait, journey, moment, memory, event, surreal, fantasy, abstract, message.				
FORM Looking at the Formal Elements	Colour— Which colours are used? Why? How are they organised? Shape— what kinds can you see? How are they arranged in te composition? Line— what kind of lines and marks does the artist use? Describe the weight and quality. Texture— What is the surface like? What textures can you see? Scale— How big is the work? Light, delicate, layered, strong, rough, dark, peaceful, dripped, vivid, bright				
PROCESS How the work has been developed and made.	What media, materials and tools have been used? What is the evidence for how it has been made? Painted, drawn, printed, stitched, constructed, collaged.				
MOOD Communicating moods and feelings	How does the work make you feel? Why do you feel like this? Does the colour, texture, or thee of the work affect your mood? Quiet, contemplative, thoughtful, hopeful, peaceful, elated, joyful, reflective, shocked, sadden.				



Section C: Subject Specific

Artist Research- Showing your understanding of an Artist's work or style



Presentation— Your research and study will form a double page. Keep it simple. Use a similar style/ colours as the artist.

Biographical information-Birth, death, education, style, important works, quotes.

Images of relevant artwork– 4-6 good quality images.

Social, historical and economical influences

- what was happening in the world at the time this was produced? Did this influence the art?

Artistic influences— Who or what influenced their work? Did they influence anyone else?

Copied images/artist study—1 large study for each artist and smaller studies.

Analysis – use the Content, Form, Process, Mood framework to write about their artwork.

Year 11 Drama—Devising



Section A: Key vocabulary					
Tier 3 Vocabulary	Definition				
Stimulus	The 'starting point' to provide inspiration and ideas for devising				
Explorative strategies	A technique to explore and deepen understanding of the drama you create.				
Plot development	The organisation or building of the action in a play.				
Visualisation	A technique which allows performers to slow down and focus individually on an issue. The performers, sitting quietly with eyes closed, allow pictures to form in their minds. These images may be motivated by bits of narration, music, sounds, smells, etc.				
Mime	ime Acting without words.				
Role playing Improvising movement and dialogue to put oneself in another place in a particular situation, often to examine the person(s) or situation(s) being improvised.					
Aims and Why are you creating your drama? What effect do you want it have on the audience?					
Improvisation Live theatre in which the plot, characters and dialogue of a gas scene or story are made up in the moment.					
Tableaux	Another term for a Freeze Frame or Still Image				
Hot seating	Asking an actor questions while they are 'in character'.				
Scales	Different states of feeling or emotion.				
Role on wall	Ideas on a 'gingerbread man'				
Tier 2	Definition				
Resolution (n)	the action of solving a problem or contentious matter.				
Discord (n)	disagreement between people				
Impending (adj) ³⁴	(of an event regarded as threatening or significant) about to happen; forthcoming.				

Section B: Research, Style & Form

B. Researching your stimulus

It is crucial for you to take ownership of the material you are developing. When you understand that the material is exciting and interesting then it is more likely to engage your audience. This will only be achieved when research and practical exploration run concurrently.

There are various sources when carrying out research:

- Internet
- Library
- Departments and teachers within the school
- Art and photography books
- Music
- News print, television, internet

C. Genre	Style and Form
Tragedy Comedy Tragi-comedy Farce Documentary theatre Morality play Melodrama Episodic drama	Mask Mime Promenade Naturalism Symbolism Agitprop Grand Guignol Site-specific theatre Verbatim theatre Physical theatre

Section D & E: Develop and Refine

D. Developing a role and characterisation

Individual and group work on character is vital for effective devising, whether you end up being a single character or playing multiple roles. A good way of determining whether a character has been fully explored is to establish their given circumstances; for instance:

- 1 Who am I?
- 2 Where am I?
- 3 When is it?
- 4 Where have I just come from?
- 5 What do I want? (Objectives)
- 6 How will I get what I want?

E. Refining the Performance

Whatever choices have been made about content, style, form and structure,

it is important to give enough time to refining the performance.

Rehearsing the performance

Time must be given to repeating the final performance. This should be focused on honing the performance, rather than making major changes to the piece.

Clarity – make sure decisions of content, style and character are clear for the audience.

Energy – engage fully with each moment of the performance and be precise.

Pace – the pace of the performance must reflect what and how you want to communicate with your audi-

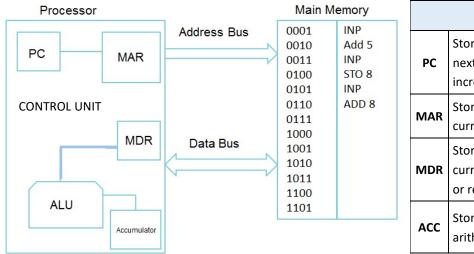
Concepts you have seen before: Devising, Genre, style and form, research, stimulus, developing character

Year 11 Computer Science—1.1 Systems Architecture



Section A: Key vocabulary				
Tier 3 Vocabulary	Definition			
Cache (n)	High speed, but very expensive volatile memory in the CPU, that stores frequently used data.			
CPU (n)	Central Processing Unit. Processes all the instructions that come from programs, the operating system, or other components in your PC.			
Clock Speed (n)	The speed of the processor, determines the number of instructions that can be processed per second.			
Cores (n)	A core is the CPU processor. Computers can have more than one core (multi-core processor) A core can only work on one task.			
Decoder (n)	Part of the CU which decodes the binary instructions fetched from memory.			
Embedded system An embedded system is a computer system that is but within another device. They tend to have a specific to perform.				
Fetch / Decode / Execute Cycle (v)	Basis of the von Neumann architecture – the repeated process where instructions are fetched from RAM, decoded			
RAM (n)	Random Access Memory - The main volatile memory into which programs are loaded from the hard drive.			
Register (n)	A small high speed memory location situated within the CPU.			
Von Neumann	The method used by all modern computers to allow the			
Architecture (n)	programming of a machine to be changed depending on the			
Tier 2 Vocabulary	Definition			
Execute (v)	To carry out or fulfil.			
Characteristic (n)	A key feature or quality belonging to something.			
Camponent (n)	a part that combines with other parts to make a machine or piece of equipment.			

Section B: CPU COMPONENTS					
CU	COntrol Unit - controls the input and output of data from the CPU. The CU sends and receives timing				
ALU	The Arithmetic Logic Unit - Does the basic mathematics calculations and logical comparisons during				



7		REGISTERS		
	PC next instruction and ther increments.			
	MAR	Stores the address of the current instruction.		
	MDR	Stores the data that is currently being fetched or read from.		
	ACC	Stores the result of arithmetic calculations		

Section C: Factors that affect performance

Doubling the **Clock Speed** will double the number of instructions

Doubling the **number of cores** can double the number of instructions executed per second. However it does not always perform twice as fast because the

Clock speed Cycles per second measured in hertz Number of cores The number of duplicate

Cache size

Superfast working memory

Increasing the cache size will reduce the number of memory to disk transfers and thus may speed up processing of these instructions.

Concepts you have seen before: Purpose of RAM, Instructions and data, hardware with embedded systems.

The number of duplicate processors linked together on a single chip

Year 11 Computer Science—1.1 Systems Architecture

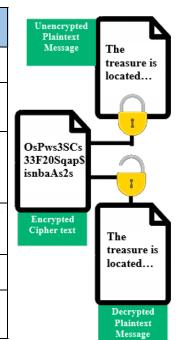


Section A: Key vocabulary					
Tier 3 Vocabulary	Definition				
Standards (n)	The main reason for standards is to ensure that hardware and software produced by different companies can work together.				
Encryption (v)	Encryption is a way of scrambling data so that only authorized parties can understand the information.				
IP Address (n) Internet protocol address assigned to a network adapte E.g. 192.158.1.38					
MAC Address (Physical (n) Address)	Media Access Control address assigned during manufacture that never changes. E.g. 2C:54:91:88:C9:E3				
Protocol (n)	The rules and standards that are agreed in order to make it possible for different devices to talk to one another.				
Packet (n)	Data sent over a network is divided into smaller segments called packets. These packets may take different routes through the internet.				
Tier 2 Vocabulary	Definition				
Wired (n)	A physical Ethernet or Fibre Connection used to exchange data.				
Wireless (n)	No physical wire used to exchange data. E.g. Wi-Fi or Bluetooth.				
Latency (n)	A measure of the time it takes for some data to get to its destination across the network. A high latency is considered to be negative.				

Concepts you have seen before:	
Encryption, Cyber Crime & System Security.	

Section B: Network Protocols					
TCP/IP	Transmission Control Protocol / Internet Protocol A set of protocols that governs the transfer of data over a network.				
НТТР	Hyper Text Transfer Protocol Scripting language used in the layouts of webpages.				
HTTPS	Hyper Text Transfer Protocol Secure A more secure version of HTTP. It encrypts data sent via this method, unlike HTTP.				
FTP	File Transfer Protocol Used to directly send files from one node to another over the internet. Commonly used for uploading files to webservers.				
POP	Post Office Protocol Used to download email from the email server and save it onto the users computer. The message is then deleted from the server.				
IMAP	Internet Message Access Protocol An alternative to POP, allowing more control. Users can synchronise mail across multiple devices.				
SMTP	Simple Mail Transfer Protocol Used to send emails between different servers on the internet.				

Section C: Wired Vs Wireless						
	WiFi	Ethernet				
Speed	Slow data transfer speed.	Faster data transfer				
Reliability	Suffers from interference from other devices.	Delivers a consistent speed.				
Security Data needs to be encrypted.		Data does not need to be encrypted.				
Latency	Higher	Lower				
Deployment Easy to add new device		Cables may take longer				



Year 11 Creative Media—Mise-en-scene



	Tear 22 Greative integral Timber em Sterile				
Section A: Key vocabulary		Section B: Areas of Mise-en-scene		Section C: Lighting	
Tier 3 Vocabulary	Definition		Interior—set inside a building		undamental to film because it creates a visual sphere, and sense of meaning for the audience.
	is the arrangement of scenery and stage properties in a play.	Set	Exterior—set outside Natural—The setting looks natural and part of our real world	Lighting tells the audience where to look. The lighting setup guides the eye to a specific actor, prop, or part of a scene. Lighting reflects the psychology of characters. The amount, size, colour, and harshness of light surrounding a character can be adjusted to match their emotions.	
Mise-en- scene (n)	Translated from French, it means "setting the stage" but, in film analysis, the term mise en scene refers to everything in front of the camera, including the set design, props, lighting, costume & make-up and composition of actors. the place or type of surroundings where		Stylised —Sometimes a director will want their work to look different from the world we see around us everyday, to give their film or game a certain 'feel'.		
			Location — This means to film in an existing place and not in the studio.	Lighting defines and supports the genre of the film. Lighting is the tool that conveys mood most clearly.	
Setting (n)	something is positioned or where an event takes place		Backdrop—Backdrops are used in computer generated images - think of how many modern films	THREE POINT LIGHTING Key Lighting - This is the brightest light of the 3 giving the main illumination of the subject.	
Costume (n)	a set of clothes worn by an actor or performer for a particular role.		use green screens with superimposed images. The objects used by the actors or characters in a	Fill Lighting -	The fill lighting is used to illuminate the dark
Make-up (n)	cosmetics such as lipstick or powder applied to the face, used to enhance or alter the	Props	scene. They are often genre specific, for example a laser gun in a sci-fi film.	Back Lighting	adows left by the key lighting. 3 - As the name suggests, the back lighting is 4 the main subject.
Composition	the artistic arrangement of the parts of a		Authentic—the costume is true to the time period that the moving image product is set in.		using more filler lights the lighting is natural and realistic to the viewer
(n)	picture. Where the actors are placed in the scene		Stylised —Costumes that are deliberately designed to have a certain 'look' that will often say something	Lighting	Creates almost no shadow Often used in Comedies
Set (n)	The enclosure in which a film scene is shot	Costume	about the character.		
Tier 2 Vocabulary	Definition		Co-ordinated with the set — the costume and the set share common design features such as colour,	Low Key	Created by using only the key & back lights (no fill light). Produces sharp contrasts of light and dark areas this can create dramatic, suspicious, or even scary effects.
Juxtapose (v)	place or deal with close together for contrasting effect		patterns and shapes, these costumes are usually also very stylised.		
Simulate (v)	produce a computer model of		Natural—Although actors will always be wearing		Deep, distinct shadows/silhouettes are formed
Imply (v)	suggest (something) as a logical consequence.		make up it is often done so you can't tell they are or in a way that makes them look naturalistic / real.		Produces a 'halo' effect around the edges of
Niche (adj)	denoting products, services, or interests that appeal to a small, specialized section of the population.	Make- up	Expressionistic —This like make up is done for effect and to say something about the character and to fit in	Back Lighting	the subject. It can be used to silhouette the subject creating mystery.
Concepts you have seen before: Costume, set, prop, make-up			with the 'look' of the film (much like stylised sets and costume)	Natural Lighting	refers to using and modifying the light that is already available to you at your location.

Year 11 BTEC SPORT—Components of Fitness



Section A: Key vocabulary			
Tier 3 Vocabulary	Definition		
Aerobic Endurance (v)	The ability of the cardi- orespiratory system to work efficiently		
Muscular Endurance (v)	The ability of the muscular system to work efficiently.		
Flexibility (v)	The range of movement at a joint		
Speed (v)	Distance divided by time taken.		
Muscular Strength (v)	The maximum force (in kg or N) that can be generated by a muscle		
Body Composition (v)	The relative ratio of fat mass to fat-free mass in the body		
Agility (v)	The ability to quickly and precisely move or change direction without losing balance or time		
Tier 2 Vocabulary	Definition		
Application (n)	The action of putting some- thing into operation		
Performance (n)	The action or process of per- forming a task or function		
Training (n)	Undertaking a course of exercise and diet in preparation for a sporting event		
Adaptation (n)	The ability to change		

Section	B: Key Ideas	
Types of Speed		
Accelerative speed	Sprints up to 30 metres	
Pure speed	Sprints up to 60 metres	
Speed endurance	Sprints with short recovery period in-between	
Did you Know?	The Components of Fitness are what makes up a performers physical performance. Everyone has some form of components of fitness as they all interlink with eachother.	
Key Concept to Know	The components of fitness can be categorised in to two types. These are known as Physical Components and Skill Components	
Body Composition can be categorised in 3 ways:		
Mesomorph	A person whose build is compact and muscular	
Ectomorph	A person with a lean and delicate build of body	
Endomorph	a person with a soft round build of body and a high pro- portion of fat tissue	

Section C: Subject Specific

Every sport or physical activity you can think of will need the components of fitness. However, every sport has a hierarchy of components which means that some are more important in certain activities than others.

For Example in Handball, Speed may be more important than muscular endurance.



Concepts you have seen before:

A simple concept that has been seen before may be that having 'basic' fitness will improve your performance.

Therefore we understand that practice and training will improve final outcomes.

Year 11 Design and Technology



Section A	A: Key vocabulary
Tier 3 Vocabulary	Definition
Sustainable design (adj)	Designing with the environ- ment and planet in mind
Social design (adj)	Designing with people and the effect on society in mind
Product analysis (n)	Looking at the strengths and weaknesses of a product
Ergonomics (n)	Designing with use and interaction in mind
Anthropometric	Human measurements and
data (n)	information used to design
Tier 2 Vocabulary	Definition
Client (n)	The person you are designing for
Primary research	Information gathered by you
Secondary research	Information that someone
Mind map (n)	A way of exploring ideas
Mood board (n)	A collection of images for
Need (v/n)	Must have
Want (v/n)	Would like to have
Summarise (v)	An explanation of all the im-

Section B: Important ideas

Understanding user needs

A product needs to be designed so their sizes and proportions fit the needs of the user. For example, the buttons on a calculator need to be big enough for the user to press them individually.

Ergonomic design can also help prevent heath issues and can ensure safety e.g. making a chair a comfortable height to reduce back problems and making it anti tip.

This can all be achieved by finding the right anthropometric data for an age range, gender and even an ethnicity.

Products are often designed to fit 90% of the target market. This gives the designer a product that will fit the "average" person.to do this they take measurements from the 5th to the 95th percentiles (excluding the bottom 5% and top 5% of people e.g. the very short and very tall)

Market research

Research is obviously needed to make a successful product and minimise unsuccessful design.

There are two main types of research: primary and secondary. The advantages of primary research it that you get fully relevant and up to date research. However, they take more time and money to conduct.

Examples of primary research include: questionnaires, interviews, focus groups and product analysis.

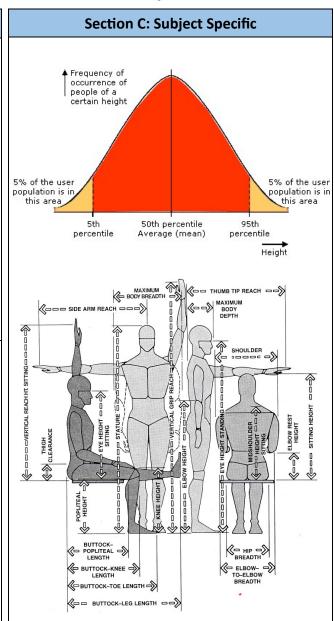
Examples of secondary research include: using the internet, books and magazines to find someone else's primary research.

Product analysis

Product analysis isn't just about using ACCESS FM! Looking into the strengths and weaknesses of existing designs can help give you a good idea of what to do and what not to do in your design. Even helping you to make yours better or to spot a gap in the market.

It helps to have a product you can actually touch and use to give you a better idea oh how well it is designed.

Remember to include sustainable design and social design in product analysis!



Concepts you have seen before: Sustainability, product analysis, ergonomics, anthropometrics

Section 1: Key	Vocabulary
Tier 3 vocabulary	Definition
Enzymic	Discolouration caused by oxyen exposed t
Browning (n)	phenols in fruit and vegetables (also know
	as enzymatic browning)
Oxidisation (n)	The reaction caused by exposure to oxyge
	Also causes water soluble vitamin loss
Phenol (n)	A chemical compound found in the cells o
	fruit and vegetables
Phenolase (n)	An enzyme that catalyzes the oxidation of
	phenols (protein)
Melanin (n)	A brown pigment
Denature (n)	A permanent change in the molecular
	structure of proteins
Food spoilage (n)	When food becomes
Independent	The independent variable is
variable (adj) (n)	the variable the experimenter changes or
, ,, ,	controls and is assumed to have a direct
	effect on the dependent variable eg chang
	ing the pH
Hypothesis (n)	A prediction based on research, tested/
,, , , ,	investigated
Dependant varia-	The dependent variable is the variable be-
ble (adj) (n)	ing tested and measured in an experimen
, . ,	and is 'dependent' on the independent
	variable. Eg using the same apple
Ascorbic acid (n)	A natural water-soluble vitamin (Vitamin (
. ,	an antioxidant
Tier 2 vocabulary	Definition
Water soluble	Not able to be stored in the body. Vitamir
vitamins (n)	B group and C
Fat soluble vita-	Stored in the body. Vitamins A,D,E and K
mins (n)	
Investigation (n)	A quest to find the answer to a question
	using the scientific metho
Control (n) (v)	A control is something used as a standard
	of comparison for checking the results of
	an experiment
Fair test (n)	A fair test is a test which controls all but
	one variable when attempting to answer
	a scientific question. Only changing one
	l
	variable allows the person conducting
40	variable allows the person conducting the test to know that no other variable ha

Enzymes (n) Biological catalysts speed up chemical

Year 11 Food Preparation & Nutrition: Food Science

Ye	ear 11 Food Preparation & Nut
Section 2: Im	portant ideas
	Fresh Spring Mir Sprin
An apple showing enzymic browning	Example of MAP, pre-cut fruit bag, ready cut lettuce
Effect of oxidation on nutrient content	As well as causing the fruit to change colour, oxidation can also affect the nutrient content of a fruit or vegetable. Vitamin C, found in some fruits and vegetable can be oxidised when it is exposed to air. The longer a fruit is exposed the less vitamins it will have.
Enzymes which naturally occur in fruit and vegetables	These are involved in the ripening and ageing process of produce, for example by turning starch into sugars. Eg a ripe banana tastes sweeter as it browns.
F e	Apples Artichokes Avocados Aubergines
	Bananas Courgettes
WiseGEEK	Nectarines Parsnips
	Pears Potatoes
1 2 3 4 5 6 7 8 9 10	Peaches Sweet potatoes
	Numbered brown colour scale used to measure the colour change of enzymic browning. Used to records results of the one of their science lessons and in
Y9 mini NEA1 tasks.	Colour is checked against scale and recorded every 10 minutes.

Section 3: Facts/Context/Historical relevance/dates

	Methods to reduce enzymic browning
рН	More acidic liquids denature phenols
МАР	Modified Atmosphere Packaging eg; pre- cut apple slices in plastic bag. Prevents oxygen coming into contact with food
Removal of oxygen	Prevents the reaction of phenolase
Vitamin C	Ascorbic acid denatures phenolase
Copper	Contact with copper also accelerates
	enzymic browning
Water	Submerging in water prevents oxidisation
Blanching	Cooking fruit and vegetables then plunging into cold water
Temperature	Keeping foods in the fridge slows enzymic browning
Desirable changes	Browning of raisins, figs, dates
Undesirable changes	Fruit and vegetables become bruised, mushy and discoloured
Who it is a problem for?	Food looks unappealing so is not bought, consumed and will be wasted
Non- enzymatic browning	Caramelisation occurs when sugar is heated. Maillard is the reaction between reducing sugars and proteins by the impact of heat.

Your 5 pieces of equipment you need for learning every day:

