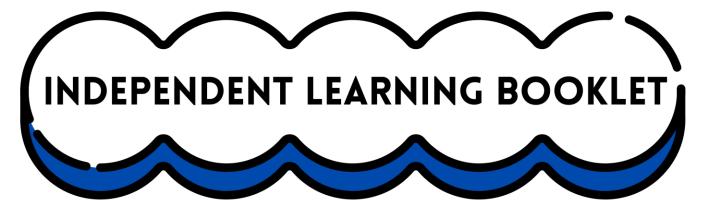


enjoylearnsucceed



NAME:	 	
- 12		
TIITOP CPOIIP		

CONTENTS

- Using Class Charts
- Accessing Seneca
- Independent Learning Log
- Self Quizzing instructions
- Subject Knowledge Organisers

You will need an A4 application booklet.

HOMEWORK:

- Your teacher will set specific tasks, with a deadline, on Class Charts
- Instructions for your homework and how to access it are in this booklet
- · You must complete and hand in the work by the deadline

INDEPENDENT LEARNING EXPECTATIONS AND REWARDS:

- You should complete 1 task per day, 5 days a week.
- The tasks will be set on Class Charts to help you keep track of what you need to do.
- You must bring your ILB and application book to school every day.
- You can choose the subject/topic you want to work on.
- Your tutor will check your ILB regularly to see how you are getting on.
- You will be rewarded for going above and beyond expectations.

USING CLASS CHARTS



All of your homework will be set by your teachers using the Class Charts System.

You should check Class Charts every day to make sure you are up to date, and that you meet all your deadlines. Below, shows you how to log on and track your homework.

Logging in to Class Charts

1. Enter your email address and password into the fields provided



2. Click on the Log in button



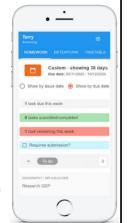
3. Enter your date of birth if prompted and click on the OK



Homework

- Select the homework tab on our account
- This will display a list of the homework tasks which you have been given.
- To change the date range for displayed homework tasks, click on the orange Date button.
- To display tasks in the order they are expected to be handed in, click on the Due date button.
- To mark a homework task as completed, view the homework task of your choice in more detail and tick the Completed checkbox.

To view a homework task in more detail, click on the expand icon in the bottom right hand corner of the homework tile. A popup will appear that contains the a description of the homework task, the estimated completion time and any links or attachments that may have been included.





Keeping track of homework

To track your homework use the three banners above the homework status. This shows the the number of homework tasks that are due that week, how many of those tasks you have completed and how many tasks you still need to complete.

To only see homework tasks that require an attachment submission, tick the checkbox labelled Requires submission.



If you are viewing the Homework tab via a desktop or laptop, expanding a homework status category will display a table overview of each homework task for the selected date range.

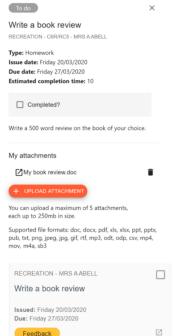


Homework attachment submissions

For certain homework tasks, you may be asked by your teacher to upload your work as an attachment. When viewing a homework task in more detail, you will see the Upload attachment button if your teacher is expecting your work to be uploaded. To submit a homework attachment, click on the Upload attachment button and select the files of your choice. Successfully uploaded files will then appear above the button

If your teacher leaves feedback on one of your homework attachments, you will see a Feedback icon appear on the associated homework task.

To view the feedback, click on the expand icon in the bottom right hand corner of the homework tile. Your teacher's feedback will appear directly below your homework attachment



To do

To-Do: These are homework tasks that you need to complete. Once you have completed them, tick the checkbox Completed

Completed: These are homework tasks that you have ticked as completed but have not been marked by your teacher

Submitted late

Late: These are homework tasks that have been handed in past the deadline.

Not submitted

Not submitted: These are homework tasks that were not handed in on time.

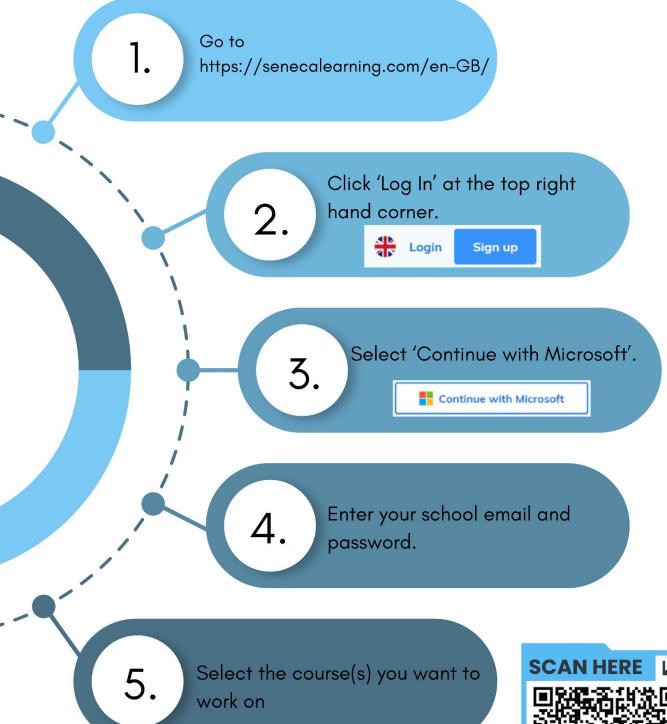
Submitted

Submitted: These are homework tasks that have been handed in on

HOW TO ACCESS SENECA



Seneca learning is a free online platform that will help you revise for all your subjects.



If you need any help accessing SENECA please speak to your class teacher, or Miss Holmes.

You can also scan this QR
code for a video
walkthrough of how to log
in as a student



INDEPENDENT LEARNING LOG SELF-QUIZZING

Expectation this ½ term: Self-Quizzing

- 1. Use/Create 6 questions
- 2. Answer 6 questions

- This should be done once a day, for approximately 20 minutes.
- All quizzing should be evidenced in your application booklet.
- Use this log to track how what subjects you have done (see example)

Week Beginning	Monday	Tuesday	Wednesday	Thursday	Friday
EXAMPLE: 01/09/2025	English: KG1 & 2	Science: KG2 & 4	History: KG4 & 5	PSHCE: KG 1 & 2	Drama: KG 1 & 3
8/09/2025					
15/09/2025					
22/09/2025					
29/09/2025					
06/10/2025					
13/10/2025					
20/10/2025					

SELF QUIZZING - INSTRUCTIONS

1.



Identify knowledge

Identify the subject and knowledge groups you are going to cover. Look at one knowledge group at a time.



Review

Spend around 5 minutes reviewing the knowledge group you have

Use this time to create questions if you need too.

Read it to yourself Highlight keywords



Cover and answer

Cover up your knowledge and answer the questions from memory. Take your time and where possible answer in full sentences.



Revisit

Go back to the content and self-mark your answers in **green** pen.



Review

Review the areas where there were gaps in knowledge, and selfquiz this area again.

SELF-QUIZZING QUESTIONS

These are taken straight from a knowledge organiser. These are examples of questions in your KO that can help you with self quizzing.

What is happiness?

What is gratitude?

What is vulnerability?

What is courage?

You can directly answer these questions in your application book.



A. Structure of the Earth and Plate Tectonics

Structure of the

Crust - The outer layer of the Earth. It is a very thin layer (think of an apple skin on an apple) and ranges between a thickness of 6 and 70 km. Broken in pieces called tectonic plates.

Mantle - Due to the high temperatures of this thick laver, the mantle has the consistency of jam! Temperatures within the mantle range from 5000°C near the core to 1300°C just below the crust. Outer Core - This layer is liquid and made up largely of iron.

Inner Core - This layer is solid and is also made of iron. Temperatures within this dense core can be 5500°C.

Using your KO, you can create your own questions, such as:

Structure of the Earth

- 1. What is the Crust?
- 2. What is the Mantle?
- 3. What is the Outer Core? 4. What is the Inner Core?

Subject: Business

needs?

What are

the most

important

customer

needs

Why do

market

What is

customer

profiling?

maps help?

Topic: 1.2 Spotting a Business Opportunity

Year Group: 10



1. Customer Needs

1	Why is it	It will ensure the business is	
	important	successful:	
	to meet	 Increase sales 	
	customer	 Increase reputation 	

Increase reputation Increase brand awareness

buy but cant touch. Eg, Haircut

Difference Goods – something that you between buy and you can touch. Laptop (TANGIBLE) aoods and services **Services** – Something that you

1. Price

(INTANGIBLE)

- 2. Choice 3. Quality 4. Convenience

3. Market Segmentation

How do Markets can be broken down in to different groups: age, we gender, lifestyle, income, segment location, ethnicity, the market? demographics

They analyse 2 different factors in a market: price V quality They identify any gaps in the market They can analyse Business competitors

Building a **customer profile** can help run a better marketina campaigns that, in turn, increases profits

2. Market Research

3

4

5

Types of

research?

Reliable

sources

data

2	Different	Primary Posoarch (field research):
	research	and wants
	market	potential target market customers need
1	What is	Market research is used to find out what

- Primary Research (field research): Different Surveys, Questionnaires, Focus Groups types of research Pop up ads, interviews
 - Secondary Research (desk research): Market Reports, Internet, books

Qualitative Data (Quality) based on

Easier to analyse, quicker to collect, but

Data **OPINIONS** hard to analyse, more time consuming to collect, but offers more indepth answers Quantitative Data (Quantity) based on **STATISTICS**

limited feedback

- How has Social media has offered new ways of social collecting data. It is fast, directed at media specific target markets globally, offers a wider range of answers chanae market
 - Market research can only be done on reliable information, like Gov Reports. credible sources. NOT google or Wikipedia

4. The Competitive Environment

1	What do we know?	Assessment of the competition in the market	
2	How does it work?	S – Strengths W – Weaknesses O – Opportunities	

3 It allows the Business to make What impact does this informed decisions based on their competitors have?

T – Threats

Kev Word Definitions

Market Breaking down a market to identify different target markets Seamentation A market that is constantly **Dynamic**

Market changing

Demographic

Demographic segmentation is market **segmentation** according

to age, race, religion, gender, family size, ethnicity, income, and education

Focus Groups

provide feedback Market Map Market mapping is the process of using a graph to plot competitors and their products to understand

gap in the market

a group of people assembled to

participate in a discussion about a

product before it is launched, or to

competitor behaviour and spot a

Gaps in the market represent

opportunities for Business to

expand their customer base

Research that is collected for a

specific reason and has never

Possibility of making a loss

been collected before

Risk

Gap in the

market

Research Secondary

Primary

Research that has been carried Research out before by another person, for a different reason.

Data Quantitative

'I think that.....' Data that can be expressed by numbers – statistics or

Data gathered using opinions

Data

Qualitative

percentages Gathered by multiple choice options for answers

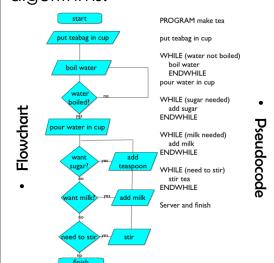
Topic: Fundamentals of Algorithms

Year Group: 10



Algorithms

There are two ways to write algorithms:



Searching Algorithms

- | Binary Search
 - Find the center of the list
 - -N+1/2
 - Compare the middle item



- Discard half of the list
- Repeat until found

Searching Algorithms

- Linear Search

DATA SET

Item1 Item2 Item3 Item4 Item5 Item6 Item7

Direction of search

©teach-ict.com

Sorting Algorithms

Merge Sort

UNSORTED LIST 2 45 6 9 15 12 7 8 2 45 6 9 15 12 7 8 2 45 6 9 15 12 7 8

2 45 6 9 15 12 7 8 W	
2 45 6 9 15 12 7 8	
2 45 6 9 12 15 7 8 2 6 9 45 7 8 12 15 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
2 6 9 45 7 8 12 15	
2 6 7 8 9 12 15 45	

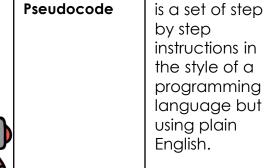
Key Vocabulary

1	Abstraction	picking out the important bits of the problem and removing unnecessary detail from a problem.

2	Decomposition	breaking a
_		problem into a
		number of sub
		problems these
		sub problems
		can then be
		solved
		individually

Algorithm	is a step by step set of rules or instructions.
	Algorithm

4



Subject:	Computer	Science
----------	----------	---------

Topic: Programming

Year Group: 10



Comparison Operators Operator Meaning == Is equal to > Is greater than < Is less than <> or != Is not equal to >= Greater than or equal to <= Less than or equal to

Data Types and Operations

- Integer e.g. 23
- Real e.g. 23.7
- Character e.g. A or 5
- String e.g. A546TH
- Boolean e.g. TRUE or FALSE.

Operations

- ADD +
- SUBTRACT -
- DIVIDE /
- MULTIPLY *
- MOD
- DIV
- EXPONENTIATION **

Translators & Facilities of Language

Low level languages:

- Machine language
 - Op-code & Operand
- Assembly language
 - Mnemonics

High level languages:

- Closer to human language
- 1. Assembler
- 2. Compiler
- 3. Interpreter

Integrated development environment ($\mbox{\scriptsize IDE}$)

- Source code editor.
- Error debugger.
- Run time environment.
- Translator (compiler or interpreter).
- Automation tools

Robust Programs

- Defensive design considerations:
 - Input validation
 - Planning for contingencies
 - Anticipating misuse
 - Authentication
- Maintainability:
 - Comments & Indentation
- Types of testing
 - Iterative
 - Final / terminal
- Logical errors, syntax errors, and runtime errors

			enjoyleanisacceea
ŀ	Key	Vocabulary	
	1	Variable	A named value which can be changed as the program is running.
	2	Constant	A named value which cannot be altered as the program is running.
(3	Syntax	The arrangement of words and phrases
	4	Boolean	A way of defining 1 or 0. Sometimes used as a way of defining algebraic notation



1.2.1

1.2.2

Markets

A market is a place where buyers and sellers come together to exchange goods and services

A market can be a physical location such as a shop or a non physical location such as a web site

Buyers and sellers will interact in order to set a price

This will be based on the demand for and supply of scarce resources

Key concepts

Markets	A market is an opportunity for buyers and sellers to interact in order to establish price and agree to buy/sell
Consumers	People who buy goods/services produced by businesses
Producers	These are businesses who

Factor markets are those where factor inputs are bought and sold e.g. Land, labour, capital

provide/make goods /services

Produce Product markets are those where goods and services that are produced by firms are sold to households and other firms.

Economic sectors

There are three economic sectors of the UK's economy (and any other economy)

Everyone that has a job will work in one of these three sectors.

The UK's service sector represents about 80% of the economy, manufacturing only 9% and primary roughly around 11%

The primary sector includes those activities

Economic sectors Primary sector

(extraction, farming)	that are related to natural resources These activities include agriculture, fishing, mining and forestry				
Secondary sector (manufacturing)	involves the transformation of raw or intermediate materials into goods, as in steel into cars, or textiles into clothing.				
Tertiary sector (services)	This sector doesn't extract or manufacture. Instead the service sector provides services. This includes banking, finance, insurance, education, tourism, the health industry and the defence industry				

Changes in the relative sizes of the economic sectors over time

The UK's economy used to have a very large secondary sector and a reasonable primary sector. There used to be many textile mills in the north of England, coal mines and car manufacturing plants based around the midlands. However, overtime the textile mills have closed, coal mines abandoned and car manufacturing shifted to cheaper locations in other parts of the world. This is an example of how our sectors have changed over time. Today the tertiary sector is the most important sector for the UK economy

What is specialisation?

Specialisation occurs when individuals, firms or countries focus on the production of particular tasks, products or industries

1.2.3

- When each employee in an organisation becomes an expert at their specific job
- When firms become experts in their field
- When countries concentrate on specific industries e.g. tourism or finance

Benefits of specialisation for producers	Costs of specialisation for producers		
Firms can produce higher quality output at a lower cost due to faster and more skilled workers.	Mistakes in part of production line may impact overall production		
Economies of scale	Changes in consumer tastes and fashion may mean specialised workers skills are redundant and the product may no longer be in demand		
Producers may develop expertise and hence a good reputation when they specialise in something	Harder to cover staff as other workers are only trained in specific roles so there may not be any other available cover.		

What is division of labour?

The division of labour is the process of **splitting a job into smaller**, **interconnected tasks and assigning each task to an individual worker**, thereby generating efficiency gains due to the positive effects of specialisation.

Benefits of specialisation for division of labour	Costs of specialisation for division of labour
Workers become experts int heir area of work	May lead to boredom due to repetitive nature of work
Repetition of the same skill increases speed and ability.	Workers may have limited skills and therefore may not be able to do other things required by the business
Workers focus on tasks they are good at and are more likely to enjoy the work and be more motivated and hence more productive	

Unit R014: Principles of engineering manufacture **Topic Area 2: Engineering Materials**

KS4



2.1 Mechanical Properties of Materials

1	Yield Strength	The maximum force that can be applied before a material begins to change shape permanently (will return to its original shape before this point is reached).		
2	The maximum force that a material can take before breaking when it is stretched (pulled).			
3	Compressive Strength	The ability of a material to withstand loads that reduce the size of that material (squash it).		
4	Elasticity	The ability of a metal to resume its normal shape after being stretched or compressed.		
5	Ductility	The ability of a material to be drawn out into wire or thread without losing strength or breaking.		
6	Hardness The measure of the resistance of a material to surface indentation, abrasion, or scratching.			

2.2 Other Properties Influencing Manufacturing

2.2 0	2.2 Other Properties initioencing Manufacturing							
7	Malleability	Is capable of being extended or shaped by beating with a hammer or by the pressure of rollers.						
8	Machinability	A characteristic of a metal that makes it easy to drill, shape, cut, grind, etc. Materials with good machinability can be cut with relatively little power and low cost.						
9	Material Cost	Material costs can be a balancing act between the function of the part and the cost. Usually the more expensive materials will be harder, greater wear and corrosion resistance, improved appearance.						
10	Manufacturing Cost	The material selected will have an impact on the cost of manufacture. Some materials will be harder to machine and will take more time to work with which will have costs implications. Wear and tear on tools, greater energy costs, regular maintenance of machines.						
10	Sustainability	Meeting the needs of today without compromising the ability of future generations to meet their own needs. Definition ; The process of using resources in a way that does not compromise the environment or deplete the materials for future generations.						

Standard Plastic Stock Shapes –















Tube

Angle, Channel, I-Beam,, Sheet, Rod, Flat, Hex, Tube, Threaded Rod, Square Bar

Engineering Manufacture

Brass

Bronze

Plumbing Accessories

Boat Propellers

Unit R014: Principles of engineering manufacture Topic Area 2: Engineering Materials

KS4



2.	3.1 Materio	als; Metals	2.	2.3.2 Materials; Polymers				2.3.3 Materials; Ceramics			
Ferrous		The same Adoption Countries IRON (Fe)		Thermoplastics		Can be remoulded numerous times		Ceramics have a high resistance to heat and wear			
M	etals	These Metals Contain IRON (Fe).	•			with the application	on of heat.	,	Tungsten	Cutting Tool Tips	
		Machine Bases, Metalworking	١,	Acrylon butadie		Analianas agrinas			Carbide	· ·	
'	Iron	Vices	'	styrene		Appliance casings			Silicate	Resistant to very high	
2	Tool Steel (Carbon Stee	Screwdrivers, Hammers, Saws	2	_ ,,		Vacuum Forming,	electronics casings	2	Glass	temperatures and very strong, used in the lining of melting furnace burners, as blocks with	
	Low Carbon			(HIPS)						windows for pyrometers.	
3	Steel (Mild Steel) (<0.6%	Low carbon steel has good enough strength for building	3	Polycar	ırbonate	Safety Goggles, Bu	ullet Proof Windows.		Silicon	Silicon glass is widely used	
	Carbon)	frames in construction projects				Eco-Products: cup	s, lids, cutlery, straws	3	Glass	in optics, photometry and spectroscopy. It is used in laser	
		Extreme hardness and		(PLA	ctic acia	and containers made from a biopolymer called PLA. Made from starchy plants like corn. Also Medical Equipment, Food Containers.				lenses and mirror prisms	
	High Carbon	resistance to wear, very high carbon steel often used for	4					2.3	3.4 Materials	s; Composites	
4	Steels (Tool Steel) (>0.6%	cutting tools that retain their			Equipment, rood C		containers.		<u> </u>		
	Carbon)	sharp edge. (Not as high carbon content are used for	Thermosetting			Polymers which cannot be remoulded		A material made from two or more different materials that, when combined, are stronger than those			
		Screwdrivers, hammers, saws)	Pl	Plastics once set in shap			nape.		individual materials by themselves. The microstructure		
5	Stainless Stee	Sinks, Rules, Cutlery	5	Polye	ester Resin	Used in GRP –	Car/ Boat bodies	can be seen to the naked eye.			
6	High Speed Steel	Drill Bits, Lathe Tools	6	Urea- forma	ı- ıaldehyde	Electrical fittin	gs, Door Handles.	1	Glass Reinforced Plastic (GRP)	Car / Boat Bodies, Bike frames	
No	n-ferrous			Epox	xy Resin	Glue, Casings	, Coatings.		riusiic (GKF)		
	etals	Metals which do not contain IRON.	8	Phenol- formaldehyde Heat resistant saucepan har		saucepan handles	2	Carbon Fibre	Bicycle Frames, Sports equipment		
7	Copper	Plumbing & Electrical Components	2.3.5 Materials; Smart & New Materials								
		Cooking Foil, Sauce Pans,			<u> </u>						
8	Aluminium	Ladders	Sr	mart mo	aterials red	act to a stimul	us in a controlled v	vay,	the change	can also be reversed.	
9	Zinc	Coatings On Steel Products		1 Shape-memory Alloys		ory Alloys	Dental Braces, surgical implants, fire prevention.				
ΑI	loys	A mixture. of two or more metals.		2 Th	hermochron	nic Materials	React to heat - Thermometers for rooms, refrigerators, aquariums, and medical use.				
10 Press		Diversities of A of a constitution		4 Quantum Tu		nnelling	Responds to pressure to create circuits -Switches on mobile phones,				

Composite (QTC)

Photochromic Pigment

5

pressure sensors and speed controllers

Reacts to light - Used to protect your eyes from harmful UV rays

Topic Area 3: Manufacturing requirements 3.1 Interpreting orthographic third angle projection drawings

KS4



Knurling is a manufacturing

process, whereby a pattern

crossed lines is rolled into

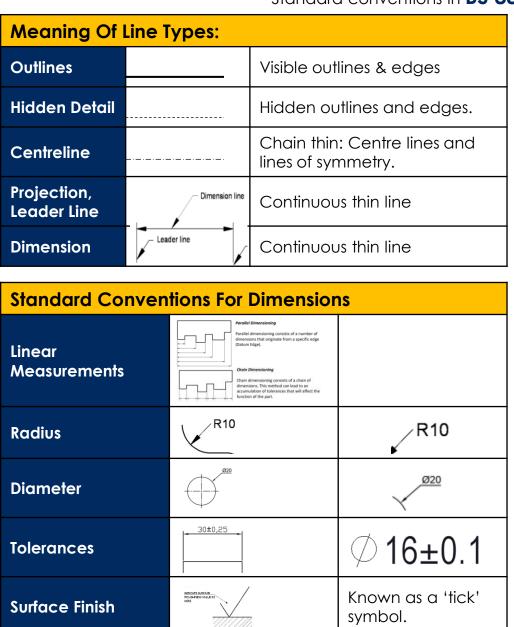
of straight, angled or

the material

Standard conventions in **BS 8888**

Knurls





38 and how t	hese are					
Abbreviations						
Across Flats	AF		s the distance between two n the head of a screw or bolt,			
Centre Line	CL		e a circular feature such as a a plane of symmetry.			
Diameter	Ø					
Drawing	DRG					
Material	MATL					
Square	SQ	☐ If preceding	a dimension			
Represento	ıtion Of	Mechanical F	eatures			
Threads	Male		Female			
Holes	Through Hole	7/////////	Blind Hole			
Chamfers	Chamfer at	45°:	A Symmetrical Sloping Surface At An Edge Or Corner			
Countersink s	Counters Plan viev	V (/40.32 x 60	Countersink Side view			

PITCH 0.8 STRAIGHT KNURU

A Christmas Carol

Year Group: 10 & 11

	Plot Summary							
1	Stave 1	Scrooge is introduced He refuses to warm the office up for Bob Cratchit; he refuses to make a charity donation; refuses to eat Christmas dinner with Fred; and is irritated by Christmas as it interrupts his business. After returning home, Marley's ghost appears and warns him he will be visited by three spirits to make him change his miserly ways.						
2	Stave 2	The Ghost of Christmas Past takes Scrooge back in time to show him: his village; him alone at school; his sister collecting him from school; a party at Fezziwig's; Belle breaking off their engagement and Belle with her husband. Unable to take any more, Scrooge begs the spirit to take him back home. When he is back home, he falls asleep almost instantly.						
3	Stave 3	The Ghost of Christmas Present shows Scrooge how the Cratchit family celebrate Christmas; Scrooge becomes worried about Tiny Tim not surviving in the future. The spirit then takes Scrooge to see how others celebrate Christmas including Fred's Christmas party. The spirit begins to age and under its robe Scrooge sees two children: Ignorance and Want.						
4	Stave 4	The Ghost of Christmas Yet to Come arrives and Scrooge is terrified of him. It shows Scrooge a group of businessmen discussing someone's death. He is taken to a pawn shop where the possessions of the dead man are being sold. He is next taken to the Cratchit household where the family are grieving for Tiny Tim. Scrooge is then taken to a graveyard and sees his name on a gravestone. He begs the spirit and says he will change his ways.						
5	Stave 5	Scrooge wakes up in his own bed and is now transformed! He sends a prize Turkey to the Cratchit family and even promises to give a huge charity donation to the poor. Scrooge then goes to Fred's to attend the party and is welcomed in. He also gives Bob Cratchit a raise and becomes a second father to Tiny Tim who does not die.						

	Characters										
	1	Scrooge	Role: Protagonist. Represents: Greed, ignorance and selfishness.	6	Bob Cratchit	Role: Scrooge's hardworking and unpaid clerk. Represents: The hard working, deserving poor.					
	2 Marley Role: Scrooge's deceased business partner who appears as a ghost. Represents: Purgatory and acts as a warning to Scrooge.				Tiny Tim	Role: Bob Cratchit's ill and vulnerable son. Represents: All poor Victorian children.					
	3 Ghost of Christmas Role: A shape changing spirit. Represents: Memory and has light/a flame at the top of its head.			8	Fred	Role: Scrooge's patient, jovial nephew. The son of his beloved sister, Fan. Represents: Christmas, happiness, family.					
	4 Ghost of Christmas Role: A jolly spirit (resembles Father Christmas). Represents: Generosity and Christmas spirit.				Fezziwig	Role: Scrooge's former employer. Represents: Generosity.					
	5	Ghost of Christmas Yet to Come	Role: A silent, sinister spirit in a black, hooded cloak. Represents: Death.	10	Belle	Role: Scrooge's former fiancée who breaks off their engagement. Represents: Love.					
ľ					•						

		Themes
1	Greed and selfishness	Example: Scrooge represents the middle classes who sought to hoard rather than share their wealth.
2	Poverty	Example : The Cratchits, Ignorance and Want. At the end, Scrooge realizes he can share his wealth with the poor.
3	Transformatio n	Example : The spirits guide Scrooge throughout the novella to become a kinder human being.
4	Christmas	Example: Scrooge learns the true meaning of Christmas is to spend time with your family and loved ones.
5	Social responsibility	Example : Without social responsibility, children suffer – e.g., Tiny Tim, Ignorance and Want. Scrooge becomes socially responsible by the end of the novella.

	Context						
1	Charles Dickens	Born in 1812 to a middle class family. His dad was imprisoned for debt leading to poverty for the family. Dickens began working difficult jobs at a young age.					
2	Poverty	The Poor Amendment (1834) reduced the amount of help available to the poor, forcing them to seek help from workhouses. Conditions were incredibly harsh in the Victorian era.					
3	Christmas	Christmas was developing as a celebration. During Queen Victoria's reign, workers were given two days holiday for Christmas. The rich ate turkey; the poor ate goose.					

			Represents:			
			Key '	Vocabulary		
	1	Simile		Definition : Comparing two things using 'like' or 'as'. Example from the text : "hard and sharp as a flint"		
	2	Motif		Definition : image or symbol Example from the text : light being used several times in the novella		
	4	Allegory	′	Definition : Characters/events represent ideas about religion, morals or politics.		
	5	Novella		Definition : A short novel or long short story.		
	6	Resolution	on	Definition : The Point where conflict is solved, Example from the text : Scrooge's redemption.		
	7	Redemp	otion	Definition : Being saved from sin, error or evil, Example : Scrooge realising he needs to change his miserly ways and then doing so.		

Frankenstein

Year Group: 10 & 11

BECKFOOT SCHOOL POPULATION SCH

Plot Summary				Characters							
1	Letters 1-4 Walton's POV	The novel begins with a series of letters from Walton to his sister, Margaret. He is captain of the ship in a voyage to the north Pole. Walton and his men rescue Victor and help him recuperate on the ship. He eventually tells Walton his story.	1] Robe Walte		A young, ambitious English man leading an expedition to the North Pole.	6	Justine Moritz		n family servant, who is more like family. med by the creature and executed for urder.	
2	Ch. 1-2 Victor's	Victor begins his narration and tells of his childhood growing up in Geneva with his doting parents. He also shares that Elizabeth was adopted. As a teenager, Victor	2		nkenst	Protagonist. Driven by ambition and Science. His quest for power leads him to his own downfall.	7	De Lacey		orned rural farmers. They are poor, but and good.	
_	POV	was fascinated by the mysteries of Science.	3	Frankenst s		Victor's father. An example of kindness and selflessness.	8	The Creature	wrong. He i	A product of Victor's scientific experiment that went wrong. He is rejected by everyone and longs for	
3	Ch. 3-5 Victor's POV	Victor's mother dies from Scarlet fever after catching it whilst nursing Elizabeth. Victor leaves to attend university in Ingolstadt and becomes obsessed with anatomy. He decides to animate a creature and is horrified when it is brought to life. He abandons the creature and falls ill.		Frankenst concern and generosity. Her death provides the		Henry Clerval					
4	Ch. 6-8 Victor's POV	Victor is nursed back to health by his friend, Henry Clerval. He receives a letter from his father informing him that William has been murdered. Returning to Geneva, Victor sees the monster and knows who is to blame, however Justine is executed for William's murder.	5	5 William Victor's youngest brother who was murdered by the 1		Elizabeth Lavenza	and idealis	opted sister and bride. She is a passive ed character and is presented as angelic. by the creature.			
5	Ch. 9-10 Victor's POV	Victor contemplates suicide but a trip to Belrive, planned by his father, cheers him up slightly. When he feels negative again, he decides to climb Montonvert to clear his head and sees the monster who shares his story.		Themes			Key Vocabulary				
6	Ch. 11-12 Creature's POV	The monster describes the confusion in its first moments of life. He then describes people fleeing whenever he tried to approach them, so he decided to stay away from them. He developed skills and began observing the De Lacey family to			bition/ session	Both Victor and Walton aim for major discoveries/achievements. Victor's tale is a warning not be overly ambitious.	to	1	Epistolary Novel	Novel written in the form of letters which allows the writer to	
_	01.10.14	educate himself.		2 Fam	nily/Lov	Family is important to Victor and the Creature. The Creature longs for family/love but is always rejected	l.		Novel	establish the narrative POV clearly.	
7	Ch. 13-14 Creature's POV	Winter turns into Spring and the creature has now learnt language. He notices that the family seem unhappy, until Safie arrives. He learns that the people are called Felix, Agatha and De Lacey and they used to be affluent.	3	3 Death Several people die in the novel and Victor's mother's death is what spurred Victor on to transgress the boundaries of life and death.		2	Frame Narrative	A narrative within a narrative. This allows us to see events from different perspectives.			
8	Ch. 15-17 Creature's	The creature finds books and learns to read and also learns how he was created. He hopes to befriend the cottagers, starting with the old, blind De Lacey, however	4	4 Reve	enge/	Both Victor and the creature feel wronged and seek revenge even at the cost of their own safety, health and happiness.		4	Allegory	eqory Characters/events represent	
	POV	Felix drives him away. When the family have left, the creature burns down their cottage and leaves for Geneva. He confesses that he killed William and framed Justine. He then implores Victor to make him a mate and Victor agrees.	į	5 Man God		Both Victor and Walton talk of conquering nature wi science which emphasizes there risk-taking and ambitious natures.	ith]		ideas about religion, morals or politics.	
9	Ch. 18-20 Victor's POV	Victor visits England with Clerval, but he leaves Clerval in Scotland so that he can work on the female creature alone in the Orkney Islands. Mid-way, he destroys it in front of the monster. The monster promises revenge on Victor's wedding night. Victor then gets rid of the remains in the sea. When he lands in a town, he is suspected of a murder.		Context		5	Foreshado wing-	When something gives the reader a hint about what will take place in the future.			
10	Ch. 21-23 Victor's	Victor is taken to the body, which is Clerval's. He collapses and falls ill. When he awakens, he is found innocent. Elizabeth and Victor marry, however, he remembers		Shelley		her own life: her mother, her 3 children and her				Take place in the foliore.	
	POV	the creature's threat and plans to battle him. On the wedding night, Elizabeth is killed by the creature and Alphonse dies from shock. Victor vows revenge on the creature.				husband (Percy Bysshe Shelley). Many advancements in science had been		6	Transgressi on	An act that goes against a law, rule or code of conduct; an offence.	
11	Ch. 24 Victor's POV- Walton in Continuation Walton's POV	Victor relentlessly tracks down the creature through ice and snow. He is found by Walton, to whom he warns not to make the same mistakes as him and Walton decides to call the voyage off. Victor asks Walton to continue his mission and then				made, biologists were finding out a great dec about the human body and its capabilities. Science was breaking boundaries.	al				
		dies. Walton then sees the creature weeping over Victor's body. He is formented and states he has no purpose left, now that his creator is dead. He leaves into the darkness.	3 Religion		igion	Parts of Europe were heavily religious. Therefore occurrences that could not be explained were viewed as an act of God or from another supernatural force.		7	Age of Enlightenm ent	An intellectual and philosophical movement that dominated the world of ideas in Europe during the 17 th -19 th Century.	



Subject: Fine Art

Topic: Observations

Year 10: HT1



	Knowledge Group 1: Pencil Drawing				
1	Grades of pencil	Graphite pencils are classified as either soft black (B), hard (H), hard black (HB), and firm (F). The degree of these qualities is then further classified by numbers, the higher the number the higher the intensity.			
2	"B" Pencils	Pencils which feature softer and darker graphite.			

Knowledge Group 2: Chalk Pastel				
Tortillon (Blending stump)	A tortillon (blending stump) is a cylindrical drawing tool, tapered at the end and usually made of rolled paper, used by artists to smudge or blend marks made with charcoal, Conté crayon, pencil or other drawing utensils.			

	Knowledge Group 3: Artists/Periods			
1	lan Murphy	A UK based Fine Artist who travels the world and produces observational drawings of unusual architecture.		
2	Clara Lieu	Visual artist who uses the human figure as a vehicle for expression in multiple techniques in drawing, printmaking and sculpture.		
3	Elizabeth Wilson	Fine artist who uses oil pastels to create vibrant portraits with gestural marks.		

		Key Vocabulary
1	Observation al drawing	Observational drawing is drawing what you see and typically implies drawing from life.
2	Tonal Modelling	Tonal modelling is a means for the artist to create a sense of three- dimensional form in a drawing or painting.
3	Hatching	Artistic technique used to create tonal or shading effects by drawing (or painting or scribing) closely spaced parallel lines.
4	Cross- hatching	A method of line drawing that describes light and shadow. Light is represented with the openness of the lines, while shadow is recorded using the density of crossed lines.
5	Contour- hatching	When the lines follow the contours of the subject recording form.
6	Highlights	The areas on an object where light is hitting.
7	Shadows	The darker areas on an object where light is not hitting.
8	Depth	The perceived distance between the background and the foreground of a composition
9	Detail	A distinctive feature on a piece of art which can be seen most clearly close up.
10	Implied texture	Texture in art that cannot be felt by touch, but which resemblance is instead achieved through the masterful use of artistic tools and materials.

Subject: French

Present Tense

Foundation Tier Knowledge Organiser

KS4



1 Je suis		Iam		
2 J'ai		I have		
3	Je fais	l do/make		
4	Je vais	Igo		
5	J'aime	l like		
6	Je déteste	e I hate		
7	Je joue	I play		
8	Je mange	e leat		
9	Je bois	l drink		
10	Je lis	Iread		
11	J'achète	I buy		
12	Je trouve	I find		
13	Je travaill	e I work		
14 Je pense		I think		
15 c'est		it's		
		11		
	ll y a			
1 11	va	There is/are		

	Perfect Tense				
1	Je suis allé(e)	l went			
2	Je suis parti(e)	l left			
3	J'ai fait	l did/made			
4	J'ai aimé	l liked			
5	J'ai détesté	l hated			
6	J'ai joué	I played			
7	J'ai mangé	l ate			
8	J'ai acheté	l bought			
9	J'ai trouvé	I found			
10	J'ai travaillé	l worked			
11	J'ai regardé	I watched			
12	J'ai vu	l saw			
13	J'ai bu	l drank			
14	J'ai lu	l read			

	Near Future Tense – I am going to				
1	Je vais être	be			
2	Je vais avoir	have			
3	Je vais aller	go			
4	Je vais faire	do			
5	Je vais jouer	play			
6	Je vais regarder	watch			
7	Je vais manger	eat			
8	Je vais acheter	buy			
9	Je vais travailler	work			
10	Je vais voir	see			
11	Je vais boire	drink			
12	Je vais devenir	become			
13	Je vais voyager	travel			
14	ce sera	it will be			

	Conditional Tense – I would like to				
1	Je voudrais être	be			
2	Je voudrais avoir	have			
3	Je voudrais aller	go			
4	Je voudrais faire	do			
5	Je voudrais jouer	play			
6	Je voudrais regarder	watch			
7	Je voudrais manger	eat			
8	Je voudrais acheter	buy			
9	Je voudrais travailler	work			
10	Je voudrais voir	see			
11	Je voudrais boire	drink			
12	Je voudrais devenir	become			
13	Je voudrais voyager	travel			
14	ce serait	it would be			
Imperfect Tense					

	ll y a			
1	Пуа	There is/are		
2	II y avait	There was/were		
3	Il y aura	There will be		
4	II y aurait	There would be		

	Structures with infinitives			
1	J'aime aller/faire	I like going/doing		
2	Je n'aime pas aller/faire	I don't like going/doing		
3	il faut aller/jouer	you have to go/play		
4	on peut/doit aller	you can/must go		

	Imperfect Tense				
1	J'étais	I was/I used to be			
2	J'avais	I had/I used to have			
3	C'était	It was			
4	il y avait	there was/were			

Subject: French	Sub	oject:	Frencl
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Foundation Tier Knowledge Organiser

KS4

BECKFOOT SCHOOL POP

Sentence Starters					Connectives					Intensi	fiers	Adjectives												
1	je pens	se que	I thi	nk that	۱ ا	1 et and			┇┞	1	un peu	a bit		1	amusant	fun								
<u> </u>		•			4	2	OU	or	┧┞	2	assez	quite	2	2	intéressant	interesting								
2	je crois	s que	l be	lieve that		3	οù	where	╛┝	3	très	very		3	passionnant	exciting								
3	à mon	avis	in m	n my opinion		in my opinion		n my opinion		n my opinion		my opinion		4	parce que	because	╛┝	_		,			•	
<u> </u>					+ 1	5	car	as	┧┟	4	vraiment	really	-	4	utile	useful								
4	selon n	moi	in m	ny opinion		6	mais	but	<u></u>	5	beaucoup	much/ a	,	5	beau	beautiful								
5	je dirai	is que	Iwo	ould say that	7	7	pourtant	however	.	6	tran	1		6	fantastique	fantastic								
					╛╽	8	aussi	also	Ţ	6	trop	too	7	7	incroyable	incredible								
	Sig	nposting Ti	me F	rames			Frequenc	:v	Т		Exclama	tionsIII		8	ennuyeux/	boring								
1		ée dernière		last year		1	tous les jours	every day	┪┝	1	1		`		barbant	Doning								
2		naine derni		last week	┨╏	-	•	from time	$\frac{1}{1}$	1	Quel dommag	What a shame!		9	fatigant	tiring								
-		Tidirie derrii	CIC		$+ \ $	2 de temps en temps		to time			e!			0	difficile	difficult								
3	hier			yesterday 	┦╏	3 une fois par		once a	2	Quel	What a	<u> </u>	<u> </u>	aitticile	aitticuit									
4		alement		normally	+		semaine	week			plaisir!	pleasure!	1	1	cher	expensive								
5	d'hab	oitude ———		usually	41	4	deux fois par	twice a	1 -	Portect Phrases For Any Essay														
6	ce soi	ir		this evening	4		mois	month		.	Perfect Phrases For Any Essay Hier je suis allé au cinema/au Yesterday I went to the													
7	la sem			next week		5	nejamais	never		1	stade/au resta	aurant/au parc/ai				aurant/park/								
8	<u> </u>	ée prochair		next year	+ [6	toujours	always			café/à la piscine et c'était			café/swimming pool and it was										
				,	+	7	souvent	often	1	2	J'ai mangé ur	ne pizza/des		l ate	a pizza/fries/a									
9	dans I	l'avenir		in the future			sometimes	11		frites/un hamburger/du jambon/du poisson/une glace				nburger/some ha cream and it was										
	Fancy Phrases							c'était																
	1 je l'ai trouvé génial I found it great							3	J'ai joué au fo rugby/au golf	oot/au tennis/au			yed football/ten it was	nis/rugby/golf										
<u> </u>	<u></u>				-				$\left\{ \left[\right] \right\}$		10gby/d0 g0ll	or C Giail		<u> </u>										
-	- -	me suis bie		. ,	\vdash	really enjoyed myself				4					ange juice									
3 j'ai tellement hâte			<u> </u>	I'm really looking forward to it			IJ L	et c'était				and it was												

Subject: French

They are

Higher Tier Knowledge Organiser

KS4

seraient

BECKFOOT SCHOOL

3	ubjeci	r rrench	<u> </u>	nowie	aĈ	je Orgo	ını	ser		K	enjoylearnsucceed										
	Presen	t Tense - I		Perfect Tens	ect Tense (past)- I Imperfect Tense - I used to Future Tense -						e Tense – I	will		Conditio	onal – I v	vould					
1	Je suis	lam	1	Je suis allé(e)	I went	1	J'étais		be	1	Je sera		be	1	Je serais		be				
2	J'ai	I have	2	Je suis parti(e	e) Heft	2	J'allais		go	2	J'aurai		have	2	J'aurais		have				
3	Je fais	l do/make	3	J'ai fait	l did/made	3	J'avais		have	3	J'irai		go	3	J'irais		go				
4	Je vais	l go	4	J'ai aimé	Hiked	4	Je faisais		do	4	Je fera		do	4	Je ferais		do				
5	Je bois	l drink	5	J'ai détesté	I hated	5	Je jouais		play	5	Je joue	rai	play	5	Je jouera	is	play				
6	Je lis	l read	6	J'ai joué	I played	6	Je regard	dais	watch	6	Je rego	ırderai	watch	6	Je regard	derais	watch				
7	Je vois	l see	<u> </u>	J'ai mangé	l ate	7	J'écouta	is	listen	7	Je mar	gerai	eat	7	Je mange	erais	eat				
8	J'achète	I buy	8	J'ai acheté	I bought	8	Je mang	eais	eat	8	J'achè	terai	buy	8	J'achete	rais	buy				
9	Je trouve	I find		J'ai trouvé	I found	9	Je buvais		drink	9	Je trav	Je travaillerai		9	Je travail	lerais	work				
10	Je travaille	e I work			I worked	10	J'acheta	ıis	buy	10	Je verro	 ai	work	10	Je verrais	;	see				
11	Je pense	I think			I watched	11			like	11	Je boire		drink	11	Je boirais	;	drink				
12	Je crois	I believe			1 walched	╟				 		ai .	dillik	12	Je lirais		read				
13	Je dois	I have to	12	2 J'ai vu	Isaw	12	Je lisais		read	12	Je lirai		read								
14	Je peux	l can	13	3 J'ai bu	l drank	13	Je travail	lais	work	13	Je part	agerai	share	13	Je partag	gerais	share				
15	Je veux	I want to	14	J'ai lu	l read	14	Je détest	ais	hate	14	J'écou	terai	listen	14	J'écoute	rais	listen				
	Present Te	nse – We/they		Past Tense –	Past Tense – We/they			Past Tense – We/they			Imperfect – We /they			Future – We /they				Conditional – We/they			
1	On va	We go	1	On a vu	We saw	1	On était	We	used to be	1	On sera	We w	vill be	1	On serait	We v	would be				
2	On joue	We play	2	On a fait	We did	2	On avait	We hav	used to ve	2	On auro	We w	vill have	2	On	14/0.1	would have				
	On 10 t	Ma han a	3	On a joué	We played	3	On allait	We	used to go	3	On ira	We w	vill go		aurait	vve (woold Have				
3	On peut	We/you can	4	On est allés	We went	4	IIs	The	ey were	4	Ils seront	They	will be	3	On irait	We v	would go				
4	On fait	We do	5		We left		étaient			<u> </u>				Щ							
5	Ils sont	They are		On est partis	vve lett	5	Ils	The	y had	5	lls guront	They	will have	4	Ils	They	would be				

avaient

auront

Subject: French

Higher Tier Knowledge Organiser

KS4

BECKFOOT SCHOOL POPULATION OF THE POPULATION OF

Sentence Starters					Connectives				Intensifiers				Avoir/Etre/Faire			
1	je pense que	I think that		7 [1 mais			but		1	un peu	a bit	1	C'est	It is	
2	je crois que	I believe that		1[2	pourtant		however		2	assez	quite	2	Ce sera	It will be	
3	à mon avis/selon moi	in my opinion		$+ \ $	3 en revanche			however		3	très	very	3	Cétait	It was	
		, .		4 [4	néanmoins		nevertheless		4	vraiment	really		C	lka.dalla.a	
5	je dirais que	I would say that			5	certes		admittedly		5	beaucoup de	Lots of	4	Ce serait	It would be	
6	il me semble que	it seems to me that		1	6	aussi		also		6	trop	too	5	IIуа	There is	
7	d'un point de vue personnel	from a personal poir	nt of	1 [7	donc		therefore		7	tellement	so	6	II y aura	There will be	
	'		<u> </u>	$+$ \lfloor	8	d'ailleurs		besides		8	extrêmement	extremely	7	II y avait	There was	
8	bien que je sache que	although I know tha	Γ	╛┎		Exclama	ıtions!!				Pronour	ns	8	II y aurait	There would be	
9	à cause du fait que	due to the fact that			1	Quel	Who	What a shame!		1	Mon/ma/mes	Му	9	Il fait beau	It's nice	
10	Je considérais que	I would consider tha	t	11	dommage!					+	Son/sa/ses	His/her				
11	il faut que je dise que	I have to say that		$+ \lceil$	2 Quel plaisir!			What a		+			10	II fera froid	It will be cold	
	ii laal qoe je dise qoe	Thave to say man					ŗ	pleasure!		+	Notre/nos	Our	11	II faisait chaud	It was hot	
	Frequency	′			Siç	gnposting Time F	osting Time Frames			_	.eur/leurs	Their	12	Il ferait	It would be	
1	tous les jours	every day	1	l'aı	nnée	dernière	las	last year		5 Lui/Elle/eux Him/her/them orageux stormy						
2	de temps en temps	from time to time	2	las	sema	ine dernière	las	t week		Fancy Phrases						
3	une fois par semaine	once a week	3	hie	er		уе	sterday		1 après avoir mangé		mangé	af	after having eaten		
	· 		4	noi	rmale	ement	no	rmally		2	je l'ai trouvé	génial	l fo	ound it great		
4	deux fois par mois	twice a month	5	d'h	nabitı	ude	LISI	Jally		3	je me suis bi	en amusé(e)	l re	eally enjoyed mys	elf	
5	nejamais	never	6		d'habitude		_	s evening		4 ça m'a vraiment plu		ment plu	l re	eally enjoyed it		
6	toujours	always			ce soir		+			5	ça en valait	la peine	It v	was worth it		
7	souvent	often	7			iine prochaine	ne	xt week		6 je n'aurais jamais pensé		ımais pensé	١w	ould never have	thought	
	20046111	Olleli	8	l'ai	nnée	prochaine	ne	xt year		7	j'ai tellemen	t hâte	l'n	I'm really looking forward to it		
8	quelquefois/ parfois	sometimes	9	da	ıns I'a	avenir	in	the future		8	le jeu en va	le jeu en vaudra la chandelle		it will be worth it		

Subject:	Geography
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Plate tectonics theory

Distribution of

tectonic

hazards

Topic: The challenge of natural hazards

Distribution

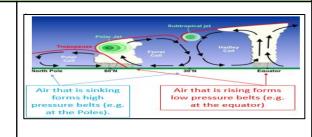
Example

Year Group: 10



A	A. Natural hazards pose major risks to people and property.							
1	Natural Hazard	A natural processes that could cause death, injury or disruption to humans.						
2	Types of natural hazard	Tectonic hazards, metrological hazards, hydrological hazards, climatological hazard.						
3	Hazard risk	The probability or chance a natural hazard will take place.						

D. Global atmospheric circulation helps to determine patterns of weather and climate.



F. The UK is affected by a number of weather hazards.

Drought, river flash flooding, coastal flooding, slow onset river flooding, surface water flooding, extreme cold/heavy snow, heatwave, thunderstorm.

В.	Earthquakes and volcanic eruptions are the
	result of physical processes

 Is a theory that the earth is divided up into tectonic plates. Plate boundary types; Constructive destructive, conservative.

The majority of tectonic hazards happen

along plate boundaries. The Pacific Ring

of Fire is the location of most tectonic

E. Tropical storms (hurricanes, cyclones, typhoons)
develop as a result of particular physical
conditions.

2	Causes	Tropical storms form over ocean water that is 27°C and low pressure, water vapour evaporates and rises, this draws in more air creating strong winds, the storm then rotates due to the spin of the Earth

All Tropical storms are located between the Tropics.

G	G. Extreme weather events in the UK have impacts on human activity.						
1	Example	Somerset floods 2014					
2	Effects	Social- 600 homes flooded, people without power Economic- £10 million damage, 16 farms damaged. Environmental- Contaminated water affecting natural habitats.					
3	Response	Immediate- Villages cut off used boats to act as transport, livestock was evacuated. Long-term- £20 million given by Government for a flood action plan.,					

dredged 8km of the River Tone.

C. The effects of, and responses to, a tectonic hazard vary between areas of contrasting levels of wealth.

hazards.

		of wealth.	
1	Examples	HIC- Italy 2009	LIC- Nepal 2015
2	Primary effect	300 deaths, 1500 people injured, 67,500 people homeless	9000 people dead, 20,000 people injured, 3 million homeless
3	Secondary effects	Fires in some collapsed buildings, broken water pipe caused a landslide.	Earthquake lead to an avalanche killing 19 people, road blocked.
4	Immediat e response	Hotels provided shelter, Italian red cross carried out search and rescue.	Search and rescue teams, water and medical aid.
5.	Long term response	New settlement for 20,000 residents was built, Investigation into why buildings	Roads repaired and stricter building regulations.

collapsed.

4	Climate	Climate change will increase the intensity and
4	change	distribution of Tropical storms

-			
	6.	Effects	Primary- 7500 people dead, 1.9 million homeless Secondary- Oil leak damaging fish stocks, seawa
			damaging farmland.

Typhoon Haiyan, 2013

I	7.	Immediate- 800,000 people evacuated, medical
1		aid and search rescue.
l		Long-term- Upgrade and rebuild damaged building 'build back better'

F. Climate change is the result of natural and human factors, and has a range of effects.

	human fact	ors, and has a range of effects.					
1	Evidence	Increased global temperatures, reduced ice coverage, irregular weather patterns.					
2	Causes	Natural- changes in earth orbit and tilt, volcanic activity, increased solar energy. Human- enhanced greenhouse effect due to increased burning of fossil fuels.					
3	Mitigation	Use of alternative energy and renewable energy source's to reduce carbon dioxide emissions.					
4	Adaptation	Use of carbon capture to reduce carbon. Tree planting to capture carbon Use of drought resistance seeds to help adapt to warmer climate.					

Subject: Geo	graphy	Topic: Th	ne challeng	e of natural hazards	Year Group:	10	BECKFOOT POP				
1) Low income country (LIC) and High income country (HIC)	countries is based on the World Bank income		countries is based on the World Bank income classifications (GNI per capita), which in 2013		countries is based on the World Bank income classifications (GNI per capita), which in 2013		5) Conservati ve plate margin	Tectonic plate margin where two tectonic plates slide past each other.	13) Planning	- Actions taken to en to respond to, and re natural disasters, thro such as emergency of information manage communications and	ecover from, bugh measures evacuation plans, ment,
			6) Constructiv e plate margin	- Tectonic plate margin where rising magma adds new material to plates that are diverging or moving apart	14) Prediction	- Attempts to forecast when and when a natural hazard will strike, based on current knowledge. This can be done to some extent for volcanic eruptions (and tropical storms), but less reliably for earthquakes. - The initial impact of a natural event on people and property, caused directly by it, for instance the ground buildings collapsing following an					
2) Newly emerging economies (NEEs)	 Countries that he begun to experient higher rates of eco development, usua 	have ience 7) Destru		- Tectonic plate margin where two plates are converging or coming together and oceanic plate is							
	higher levels of industrialisation. They differ from LICs in that they no longer rely		margin	subducted. It can be associated with violent earthquakes and explosive volcanoes.	15) Primary effects						
	primarily on agricul have made gains i infrastructure and industrial growth, a	Iture, n ind are	8) Earthquake	-A sudden or violent movement within the Earth's crust followed by a series of shocks	16) Protection	earthquake. - Actions taken before to reduce its impact, educating people or building design	such as				
	experiencing incre incomes and high I of investment, eg B Russia, China and S Africa (the so-calle	evels Imr razil, resp	9) Immediate responses	- The reaction of people as the disaster happens and in the immediate aftermath.	17) Secondary effects -	The after-effects that occur as indirect impacts of a natural event, sometimes on a longer timescale, for instance fires due to ruptured gas mains resulting from the ground shaking.					
	BRICS countries).		10) Long- term	- Later reactions that occur in the							
3) Hazard risk	- The probability or chance that a natural hazard may take place.		responses	weeks, months and years after the event.	18) Tectonic hazard	 A natural hazard c movement of tecton (including volcanoes earthquakes). 	ic plates				
4) Natural hazard	- A natural event (for example an earthquake, volcanic eruption, tropical storm, flood) that		11) Monitoring			- A rigid segment of t which can 'float' ac semi-molten rock be plates are less dense oceanic plates.	ross the heavier, low. Continental				
	threatens people of the potential to ca damage, destruction death.	iuse	12) Plate margin	- The margin or boundary between two tectonic plates.	20) Volcano	- An opening in the E which lava, ash and					

Subject: Geogr	aphy Topic: The cha	llenge of natural h	azards	Year (Group: 10	BECKFOOT SCHOOL PURPLE PROPERTY OF THE PROPERT	
21) Economic impact	- The effect of an event on the wealth of an area or community.	29) Planning	Actions taken to enable comm to respond to, and recover from natural disasters, through measures such as emergency evacuation	res	37) Climate change -	A long-term change in the earth's climate, especially a change	
22) Environmental impact	- The effect of an event on the landscape and ecology of the surrounding area		information management, communications and warning sy	stems.		due to an increase in the average atmospheric	
23) Extreme weather	This is when a weather event is significantly different from the average or usual weather pattern, and is especially severe	30) Prediction	-Attempts to forecast when and where a natural hazard will strike, based on current knowledge. This can be done to some extent for tropical storms (and volcanic eruptions, but less reliably for earthquakes).		38) Mitigation	- Action taken to reduce or eliminate the long-term risk to human	
	or unseasonal. This may take place over one day or a period of time. A severe snow blizzard or heat wave are two examples of extreme weather in the UK.	31) Primary effects	- The initial impact of a natural event on people and property, caused directly by it, for instance buildings being partially or wholly destroyed by a tropical storm.			life and property from natural hazards, such as building earthquake-proof buildings or making	
24) Global atmospheric circulation	- The worldwide system of winds, which transports heat from tropical to polar latitudes. In each hemisphere, air also	32) Protection	- Actions taken before a hazard to reduce its impact, such as educating people or improving building design.	strikes		international agreements about carbon reduction targets.	
	circulates through the entire depth of the troposphere which extends up to 15 km.	33) Secondary effects	The after-effects that occur as indirect impacts of a natural eve sometimes on a longer timescale instance impact on access to po	ent, e, for	39) Orbital changes -	- Changes in the pathway of the Earth around the Sun.	
25) Immediate responses	- The reaction of people as the disaster happens and in the immediate aftermath	34) Social impact	water can lead to spread of di				
26) Long-term responses	- Later reactions that occur in the weeks, months and years after the event.	35) Tropical storm	- (hurricane, cyclone, typhoon) / area of low pressure with winds r in a spiral around the calm centre.	noving	40) Quaternary period	- The period of geological time from about 2.6 million years ago to the present. It is	
27) Management strategies	- Techniques of controlling, responding to, or dealing with an event.		point called the eye of the storm Winds are powerful and rainfall is heavy.	5		characterized by the appearance and development of humans and includes	
28) Monitoring	- Recording physical changes, such as tracking a tropical	36) Adaptation -	Actions taken to adjust to nature events such as climate change,	to		the Pleistocene and Holocene Epochs.	

reduce potential damage, limit the

impacts, take advantage of

consequences.

opportunities, or cope with the

such as tracking a tropical

forecast when and where a

natural hazard might strike.

storm by satellite, to help

Sub	iect:	Germ	O
'			

Foundation Tier Knowledge Organiser

KS4



SCHOOL	
enjoylearns	ucce

	Present To	ense			Perfect Ten	se	
1	Ich bin	l am		1	Ich bin gegangen	Iwent	
2	Ich habe	I have		2	Ich bin gefahren	I travelled	
3	Ich mache	l do/make		3	Ich bin geflogen	I flew	
4	Ich gehe	Igo		4	Ich bin geblieben	l stayed	
5	Ich fahre	I travel		5	Ich habe gemacht	I did/made	
6	Ich mag	l like		6	Ich habe gespielt	I played	
7	Ich hasse	l hate		7	Ich habe gegessen	l ate	
8	Ich spiele	l play		8	Ich habe getrunken	l drank	
9	Ich esse	l eat		9	Ich habe gekauft	l bought	
10	Ich trinke	l drink		10	Ich habe gearbeite	t I worked	
11	Ich lese	Iread	Ī	11	Ich habe gesehen	I watched	
12	Ich sehe	l see	Ī	12	Ich habe gelesen	Iread	
13	Ich kaufe	I buy		13	Ich habe gefunden	I found	
14	Ich finde	I find		14	Ich habe besucht	I visited	
15	Ich arbeite	l work	Ī		Using Geb	en	
16	Ich denke	I think		1	Es gibt	There is/are	
17	Ich muss	I have to		2	Es gab	There	
18	Ich kann	ch kann I can				was/were	
19	Ich will	I want to		3	Es wirdgeben	There will be	
20	Es ist	it's		4	Es würdegeben	There would be	

	Simple	e Past
1	Ich war	l was
2	Es war	It was
3	Sie waren	They were
4	Ich hatte	Ihad
5	Es gab	There was/were
	Condition	nal Fancy
1	lch wäre	I would be
2	Es wäre	It would be
3	Sie wären	They would be
4	Ich hätte	I would have
5	Es gäbe	There would be
		Structu
1	Ich muss	.machen
2	Ich darf	machen
3	Ich kann	.machen
4	Ich sollm	nachen

	i ·						
Sie waren	They were		2	werden	become		
Ich hatte	I had		3	gehen	go		
Es gab	There was/were		4	fahren	travel		
23 gas	more was were		5	spielen	play		
Condition	nal Fancy		6	essen	eat		
Ich wäre	I would be		7	trinken	drink		
Es wäre	It would be		8	sehen	see		
Sie wären	They would be		9	arbeiten	work		
Ich hätte			10	lesen	read		
ichnane	i would have		11	machen	make/do		
Es gäbe	There would be		12	besuchen	visit		
	Structures	s V	Vith In	finitives			
Ich muss	.machen			I have to d	I have to do		
Ich darf	machen			I am allow	I am allowed to do		
Ich kann	.machen			I can do			
Ich solln	nachen			I should do)		
Ich willm	nachen			I want to d	I want to do		
Man muss	/kann/sollmac	he	en .	You must/a	You must/can/should do		

Future/Conditional Tense

Ich werde/möchte... = I will/would like

be

...sein

Subject: German

Essen war sehr lecker und es hat sich wirklich

gelohnt. Wahnsinn!

Foundation Tier Knowledge Organiser

KS4

enjoy myself I love pizza.

BECKFOOT POPT

	Sente	Connectives				Intensifiers			Adjectives							
1	Meiner Meinung no	ach	In my opinio	า		1	und		and		ī	ein bisschen	a bit	1	lustig	funny
			, .			2	aber		but		2	ziemlich	quite	2	interessant	interesting
2	Meines Erachtens		In my opinio	า 		3	denn		because		3	sehr	very	3	spannend	exciting
3	Im Großen und Ganzen		All in all			4	oder		or		4	wirklich	really	4	nützlich	useful
						·					5	echt	genuinely	5	schön	beautiful
4	Ich denke, dass		I think that			5	jedoch		however		6	ZU	too	6	toll	great
5	Ich würde sagen, a	dass	I would say t	hat		6	außerde	m	furthermo	ore] [1		1		
						7	weil/da		because		7	SO	SO	7	unglaublich	incredible
6	Ich muss sagen, do	ass	I have to say	that		8	dass		that		8	ganz	totally	8	langweilig	boring
	Signposting Tim	ne Fran	nes			Frequency				Exclamations!!!			anstrengen d	tiring		
1	letztes Jahr	last y	'ear	1	iede	n Tag	•	ever	y day	, day		Wie	What a	10	schwierig	difficult
2	letzte Woche	last v	veek						from time to time		2	Schade!	shame!	11	teuer	expensive
3	gestern	yeste	erday	2		ind zu		from				Wahnsinn!	Wow!	12	billig	cheap
4	normalerweise	norm	nally	3	einm	nal pro	o Woche once a week		Fancy				спеар			
5	gewöhnlich	usua	lly	4	zwei	zweimal pro Monat		al pro Monat twice a month								
6	heute Abend	this e	evening	5	nie			never always			1 Es hat eine Menge Spaß gemac			ht It		
7	nächste Woche	next	week	6	imm	or				2	2 Es hat sich wirklich gelohnt			It was really worth it		
8	nächstes Jahr	next	year	<u> </u>		<u></u>			<u>'</u>		3	3 Das hat mir gefallen			iked it	
9	in der Zukunft	in the	e future	7	oft			ofter	า 		4 Ich freue mich schon darauf		10	I am already looking forwa		
10	am Wochenende	at th	e weekend	8	man	ichma	I	some	etimes		5	Ich werde mic	h amüsieren	I)	will enjoy myself	
Perfect Past Examples													Fantastic Future Examples			
Kino/Café/Restaurant/Stadion/Museum cir						st weekend I went to the nema/café/restaurant/stadium/ useum and it was loads of fun.			Freur	Nächstes Jahr werde ich mit meinen Freunden nach Berlin fahren und ich freue mich schon darauf.			Next year I will travel with my friends to Berlin. I am already looking forward to it.			
2	Ich habe Hähncher gegessen und ich h	abe C	ola getrunken	. Das	and	ate chicken, chips and salad and I drank cola. The food was			Ich möchte ins Café gehen und ich möchte Pizza essen. Ich werde mich			I would like to go to café and I would like to eat pizza. I will				

amüsieren, weil ich Pizza liebe.

very tasty and it was really worth

it. Wow!

Subject: Germai

Higher Tier Knowledge Organiser

KS4



	Present 1	lense
1	Ich bin	Iam
2	Ich habe	Ihave
3	Ich mache	I do/make
4	Ich gehe	l go
5	Ich fahre	I travel
6	Ich mag	l like
7	Ich hasse	I hate
8	Ich spiele	I play
9	Ich esse	l eat
10	Ich trinke	I drink
11	Ich lese	Iread
12	Ich sehe	I see
13	Ich kaufe	I buy
14	Ich arbeite	I work
	Present tense o	ther subjects
1	Er/sie fährt	He/she trave

	Perfect Tense	
1	Ich bin gegangen	I went
2	Ich bin gefahren	I travelled
3	Ich bin geflogen	I flew
4	Ich bin geblieben	Istayed
5	Ich habe gemacht	I did/made
6	Ich habe gespielt	I played
7	Ich habe gegessen	l ate
8	Ich habe getrunken	l drank
9	Ich habe gekauft	I bought
10	Ich habe gearbeitet	I worked
11	Ich habe gesehen	I watched
12	Ich habe gelesen	Iread
13	Ich habe gefunden	I found
14	ich habe besucht	I visited
	Past tense other sul	bjects
1	Er/sie hatgespielt	He/she played
2	Sie/er ist gegangen	She/he went

	Simpl	e Past
1	ich war	l was
2	es war	it was
3	sie waren	they were
4	ich hatte	Ihad
5	es gab	there was/were
	Condition	nal Fancy
1	ich wäre	I would be
2	es wäre	it would be
3	sie wären	they would be
4	ich hätte	I would have
5	es gäbe	there would be
		Structures
	1	
1	ich muss.	machen
2	ich darf	. machen

	=	ich werde/mö = I will/would like	
		Er/sie wird = he Wir werden =	
	1	sein	be
	2	werden	become
	3	gehen	go
	4	fahren	travel
	5	spielen	play
	6	essen	eat
	7	trinken	drink
	8	sehen	see
	9	arbeiten	work
	10	lesen	read
W	/ith Inf	initivas	

Future/Conditional Tense

	ICH KGOTO	1007		14	ich habe besucht	I visited			Structures With Infin	itives
14	Ich arbeite	l work			Past tense other sul	bjects		1	ich muss machen	I have to do
	Present tense other subjects			1 Er/sie hatgespielt		He/she		2	ich darf machen	I am allowed to do
1	Er/sie fährt	He/she travels				played	l ⊢			
	Wir fahren	We travel	╛	2	Sie/er ist	She/he went		3	ich kann machen	I can do
2	Er/sie sieht	He/she sees		_	gegangen	0110/110 110111	l ⊦			
	Wir sehen	We see	١L					4	ich soll machen	I should do
3	Er/sie isst	He/she eats	11	3	Wir	We did/made	l ⊦			
3	Sie essen	They eat	╛┕		habengemacht			5	ich will machen	I want to do
4	Er/sie liest Sie lesen	He/she reads They read		4	Sie sindgefahren	They travelled		6	man muss/kann/soll machen	you must/can/should do

Subject: German

in der Zukunft

in the future

Higher Tier Knowledge Organiser

KS4

BECKFOOT SCHOOL P

it will definitely be lots of fun

enjoylearnsucceed

	Sente	nce St	arters				Co	nnective	es			Intensifie	rs			Adjective	S
1	Meiner Meinung no	ach	In my opinio	n		1	und		and		1	ein bisschen	a bit		1	lustig	funny
2	Meines Erachtens		In my opinio	n		2	aber		but		2	ziemlich	quite		2	interessant	interesting
3	Im Großen und		All in all			3	denn		because	l	3	sehr	very		3	spannend	exciting
	Ganzen					4	sondern	(neg)	but	l	4	wirklich	really		4	nützlich	useful
4	Auf der einen Seite	=	On the one h	nand		5	jedoch		however		5	echt	genuinely	╁┝╴	5	schön	beautiful
5	Aber auf der ande Seite	eren	But on the ot	her ho	ind		deshalb		therefore		6	ZU	too	╁├	6	toll	great
6	Es scheint mir, dass		It seems to m	ne that		6					7	SO	SO				
						7	trotzdem	1	nevertheles s		8	ganz	totally		7	unglaublich	incredible
7	Ich denke, dass		I think that			8	außerde	m	furthermore			Evaleus elia	III		8	langweilig	boring
8	Ich würde sagen, a	dass	I would say t	hat		9	weil/da		because		,	Exclamatio	i		9	anstrengend	tiring
9	Obwohl ich weiß, d	dass	Although I kr	now the	at	10	dass		that		I	Wie Schade!	What a shame!		0	schwierig	difficult
10	Ich glaube, dass		I believe tha	t		11	obwohl		although		2	Wahnsinn!	Wow!	- -	1	teuer	expensive
11	Ich muss sagen, da	ass	I have to say	that							2	VVGHHSHIH:	VVOVV:	-	2	billig	cheap
			ĺ ·	_		12	wenn		if/when								
	Signposting Time	e Fran	nes				Frequen	су					Fancy	/ Phr	ases	3	
1	letztes Jahr	last y	rear ear	1	jede	n Tag		every	day		1	es hat eine Me gemacht	enge Spaß		it v	vas loads of fun	
2	letzte Woche		veek	2	ab u	ınd zu		from ti	ime to time	2	2	ich habe mich amüsiert	wirklich		۱r∈	eally enjoyed my	self
3	gestern	yeste	erday	3	einn	nal pro	Woche	once	a week		3	es hat sich wirk	dich gelohnt		it v	vas really worth i	t
4	normalerweise	norm	nally	4	zwei	mal pr	o Monat	twice	a month		4	das hat mir ge				 ced it	
5	gewöhnlich	usua	lly	5	nie	-		never		\vdash	5	ich hätte nie g				ould have neve	r thouaht
6	heute Abend	this e	evening		1110					\vdash	5	je (heißer), des				e (hotter) the be	
7	nächste Woche	next	week	6	imm	er		alway	S	_	7	ich freue mich		,		m already lookir	
8	nächstes Jahr	next	year	7	oft			often				TOTAL TRACE	Jenon dardor		to	•	19 101 11414

sometimes

manchmal

8

machen

es wird bestimmt viel Spaß



Subject: Graphics

Topic: Pop Culture Convention Justin Maller Artist Study

Year 10 HT1



	Knowledge	Group 1: Tools		Knowledge	Group 1: Techniques		Key Vo	ocabulary
1	Polygonal lasso Tool	This lasso tool creates a straight line in between each mouse click.	1	Irregular triangles	Different in sizes: large, medium and small.	1	Low Polygonal Art	A minimalistic art style used in video game design,
	_ 1	To record triangles:	2	Isolate (hues)	A colour that has been or become isolated.			animation, and illustration.
		Click - Move - Click - Move - Double Click	3	Hue	The name of a colour.	2	Aspect	The ratio of the
			4	Saturation	The intensity or purity of a hue.		Ratio	width to the height of an image or screen.
	9		5	Shadows	The darker areas on an object where light is not			
					hitting.	3	Detail	A distinctive feature of an object or
2	Average blur (Filter – Blur –	It will turn the image to a solid colour by producing an average of all colours in	6	Highlights	The areas on an object where light is hitting.			scene which can be seen most clearly
	Average)	the image.	7	Tonal Modelling	Tonal modelling is a means for the artist to create a			close up.
		Keyboard shortcut: Ctrl F			sense of three-dimensional form in a drawing or painting.	4	High Resolution	A large amount of detail. This would contain a lot of
3	Deselect	Ctrl D						pixels to create.
4	Step Backwards	Undo/Redo step backwards multiple steps.	8	Contour	An outline representing or bounding the shape or	5	Pattern	A design in which
	Short cut (Alt – Ctrl – Z)	Ideal if you have moved a layer in error or misaligned a pre-existing template.			form of something. Record contours by placing triangles carefully along contours.		(Avoid)	lines, shapes, forms or colours are repeated.
			9	Gradient	A gradual blending from 1 colour to another.			

lealth	and	Social	Care

RO32 Principles of care in Health and Social Care – Topic area 1

• Service providers must find out and respect the service users' opinions, beliefs and concerns to build trust. • Service users involved in decision-making will feel more in control reducing fears or worries they have.

• Every service user can access health and social care services, regardless of who they are (not unfairly because of their colour,

Can occur deliberately or accidentally (racism, lack of training, sexual orientation) it could be cruel comments, physical action

Year 10

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1.1 Types of Care

Social Care Examples

Choice

Consultation

Abuse

Health care settings	Dental practice, GP surgery, Health centre, Hospital, Nursing home, Optician, Pharmacy, Walk-in centre
Health Care Examples	Visiting the dentist twice a year for a check-up.

Visiting the dentist twice a year for a check-up.

- Pregnant woman visiting the hospital for an ultrasound scan on her unborn baby.
 - Visiting Accident and Emergency A and E) at hospital for a sports is.

age, gender, money available or ability to care for themselves.

Social care settings Residential home, Retirement home, social services department, support group, community centre, day centre, food bank, homeless shelter.

- An individual staying at a homeless shelter.
- Dementia resident cannot care for themselves in their own home, now living in a residential care home.

checked regularly, procedures not followed)

• A family struggling to cope with the demands of caring for their physically disabled child.

1.2 The Rights of service users

- Choosing which activities they participate in Choosing what to eat
 - Choosing the type of treatment
- Service users have a duty of care to protect service users' personal information Confidentiality
- (verbal and written)
 - Service providers cannot discuss service users care with their family and friends not directly involved in their care.

 - Conversations should be in a private room (cannot overhear)

 - Keep personal information secure in a locked cupboard or filing cabinet. Computers should be password protected

 - Providers would need a log in with a secure email and password to access data and wear a security badge
 - Service users should be involved in all decisions that are made about them.

or isolation.

- **Equal and Fair treatment**
 - - Misconception we should treat everyone in the same way, but this means some will be disadvantaged. E.g., providing information in large print, different language, braille.
- Protection from abuse and • Includes health and safety, safe working practices and knowledge of what to do if you have concerns. Harm

 - Service providers have a duty to prevent harm and abuse have a clear complaints procedure.
 - Staff should monitor behaviour, be vigilant and receive the correct training to be able to recognise signs of abuse and how to report them.
- Harm
 - Can occur in unsafe or inaccessible to service users (inadequate lighting, slippery floors, missing handrails equipment not

Health and Social Care

RO32 Principles of care in Health and Social Care – Topic area 1

Year 10

enjoylearnsucceed

BECKFOOT

Key Terms Consultation

Physical Hard

Emotional Harm

Empowerment

Best interests

received

Confidence in the care

Service providers share information with service users and vice versa, so care decisions can be made together.

Includes smacking, hitting, kicking, shaking and biting. This type of harm can lead to physical injuries such as bruises, burns, bite marks or broken bones.

Includes shouting or swearing at a service user, insulting them or ignoring them completely. Relates to the control or 'power' a service user feels they have over their life

Holistic approach Consider the emotional and psychological needs as well as the physical health

1.3 The benefits to service users' health and wellbeing when their rights are maintained

Empowerment - Control or 'power' will support the resident to feel stronger and mare confident therefore more independent and self-reliant.

Independence and selfreliance

Encourage service users to remain independent for as long as possible and self-reliance promoting self-worth and self-confidence. Provide physical and intellectual stimulation so the service users life remains interesting and has value. Maintain a service user right to choose leading to self-reliance (involved in all decisions about their care and contributing to self-esteem.

Feelings of Control Empower service users by ensuring their rights are met giving them a sense of control e.g., Am I okay to listen to your chest?

Involved in their own care to increase their understanding and increase their self-esteem. A sense of control results in them being likely to agree to care.

Choice

High self-esteem - if rights are maintained they will feel valued and respected increasing their self-esteem

The right of choice will help service users feel valued and worthy of care. More likely to ask for additional support in the future. Feeling valued

Feeling respected Gain respect by introducing themselves, asking their preferred name and listening to them properly. Will develop a partnership and an understanding based on honesty and trust. Health and wellbeing will improve because of the high standards of care. E.g. correct manual handing techniques used.

This contributes to a person's self-esteem and self-worth. Good mental health allows people to cope with change better and identify the benefits of care.

Positive mental Health Take a holistic approach considering how the person feels about their care.

Service users' needs are not met - care should be specific and well planned to the service user.

Service users receive care that is appropriate to their needs showing they are respected and worthy of support. They are more likely to use the service

Appropriate care or again. Settings should be accessible e.g. lifts, wide doorways and ramps. treatment

If services are appropriate to their needs their health and wellbeing will benefit for example, hunger leads to tiredness and dizziness, lack of focus at

Improvements in physical school. or mental health

Trust - service users will feel safe and confident with the care provided. Safety from harm

Trusting relationships will allow confidence to develop because they feel safe.

Settings should be secure (locks and keypads working, intruders cannot enter)

Staff should wear identification to keep service users safe.

where conversations are not overheard. This creates confidence.

Care should have their best interest at heart. Gives reassurance and confidence in their care. Staff training makes service users safe Trust gives service users confidence in their care and to ask questions. They will feel worthy, valued, respected and safe. Trust is linked to confidentiality

Topic: Americans' experiences of the Depression and New Deal Year Group: 10

Subject: History



		enjoylearnsucceed
1. The Great Depression	2. Effect of the Great Depression	Key word Definition
What were 1. Over-speculation – too many the long people had bought shares with term causes borrowed money hoping that of the their value would increase	1 What	Buying on the Margin A method of buying shares where an investor pays 10% of the share price and repays the rest with their profits Repuls Army The war veterans who marched on
depression? 2. Overproduction – the demand for products fell as everyone who could afford the products	Crash? 3. Between 1929 and 1932, factory production dropped by 45% and housebuilding by 80%.	Bonus Army Ine war veterans who marched on Washington in 1932 to demand payment of their war pensions
had already bought them 3. Credit – too many people had	2 Why did	Dust Bowl Parts of the interior USA which had become infertile for farming
bought products with borrowed money, meaning there was a lot of debt 4. Tariffs – taxes on US imports in	unwanted materials 3. Many unemployed workers became 'hobos' and travelled the country looking for any work they could find.	Hobo The term used for a person who moved around the country seeking work
other countries meant companies struggled to sell their extra product aboard.	Soup kitchens were set up in cities and many homeless people joined breadlines to find food. How did the Nany farmers were struggling before the Crash.	Hooverville The temporary slums that arose as a response to high levels of homelessness
2 What were 1. Some shareholders began to	Depression affect farmers? 2. Many farmers had to pay back bank loans (e.g. for equipment) and often struggled to do this. 3. By 1932, 1 in 20 farmers had lost their farms and homes as a result. 4. Drought and farming methods had turned much of the Midwest into a	Laissez-faire A government policy of not getting involved in people's lives
the short lose confidence in the term causes companies they invested in and of the from September 1929, they depression? began selling their shares	'Dust Bowl' in which the topsoil was blown away leaving dry soil. 3 How did President 1. He believed in 'rugged individualism' and felt the crisis would end quickly.	Rugged The belief that individuals should individualism solve their own problems for hard work rather than relying on the
As more people began to sell their shares, the value of these shares fell as the sellers were desperate to get rid of them.	Hoover 2. The Reconstruction Finance Committee lent money to farmers and struggling businesses. crisis? 3. A huge road and dam building programme created jobs. 4. \$300m to help the unemployed was made available to the states but	Share A part of a business that is sold to get investment in the company
This led to the Wall Street Crash What was On 24 th October 1929, 13 million	only \$30m was used. 5. The Hawley-Smoot Tariff of 1930 taxed imports but led to other countries taxing US goods, making US exports fall	Speculation Gambling on the stock market, often with borrowed money
the Wall shares were sold – x5 sold on a Street Crash? normal day. Share prices for almost all companies dropped further.	4 How did people react to the Depression? 1. Farmers in lowa used guns and pitchforks to keep government officials from evicting farmers. 2. In summer 1932 250,000 ex-soldiers marched to Washington to demand their pension or 'bonus' to be paid early.	Stock Market Where stocks were bought and sold
This day became known as 'Black Thursday' or the Wall Street Crash.	3. Hoover set the army on them and the 'Bonus Army' protesters were driven off with gas, guns and tanks. 4. People blamed Hoover's laissez-faire attitude for their suffering	Under- consumption When not enough money is being spent to sustain a particular business or the wider economy
4 What was 1. On 29 October there was the short another selling panic.	3. The 1932 Hoover Roosevelt election	
term impact 2. 16 million shares were sold. of the Wall Shareholders lost a total of \$8 Street Crash? billion on the day. 3. Many had borrowed money to	Before politics he was a mining multi-millionaire. New York	the Democrat Party ork governor after 1928 and spent \$20m of tax money If the unemployed.
buy the shares and now couldn't afford to pay back their loans 4. Many banks went bankrupt as they could not recover their money. In 1929, 659 banks	solve its problems through hard work and without 2. The 3Rs government help. (providi	mised a 'New Deal' for America : 'Relief' (help for those in need), 'Recovery' ing jobs) and 'Reform' (to improve America and e the impact of the Depression).
folded and many people lost their life savings.	outcome uncaring. 2. He spot	iked him due to his resilience and ideas. ke all over the country up to 15 times a day. adcast his policies on the radio in a series of 'fireside

Topic: Americans' experiences of the Depression and New Deal Year Group: 10

6. Impact of the New Deal

What were

the positive

impacts of

What were

impacts of

the New

How did it

women?

How did it

workers?

How did

How did it

affect Native

Americans?

How did the

come to an

New Deal

end?

affect

Deal?

affect

the negative

the New

Deal?



Government agencies created

The 1935 measure that created

The USA's highest court that can

challenge or overrule new and

Relief, Recovery, Reform: FDR's

three main policy priorities after

Jazz was very popular and

along with vinyl records.

the cinema each week.

Comic books became a

hugely popular industry.

Authors wrote about the

unemployed artists of all

broadcast by radio.

The Works Progress

provided work for

kinds.

Administration (WPA)

Over 100m people went to

top stars sold lots of records.

Gramophone sales increased

Musicals, comedies, historical

dramas and horror films were

Plays, poetry and sports were

Depression and social issues.

Much of the artistic output of

this era became important

The WPA was criticized for wasting taxpayers' money.

and is still studied and

enjoyed today.

winning the Presidency

all popular.

America's first social welfare

during the New Deal

for their exclusive use

4. The New Deal

What

were the

Alphabet

How did

the New

Deal help

unemploy

-ment?

How did

the New

Deal

The

Supreme

Court

Radical

politicians

affect

Agencies?

Subject: History

The Emergency Banking Act closed and inspected all What did Roosevelt banks - only the well-run and fully financed banks were do in his allowed to reopen.

first 100 The Economy Act cut government employees' salaries by 15% which saved the country \$1billion. days?

The Beer Act ended Prohibition, put the gangsters out of business, and allowed the government to raise cash by taxina alcohol.

These were government organisations known by their

The idea was that the government would create jobs by spending money, allowing buying to resume, therefore

creating more jobs. 1. The CCC temporarily employed 2.5 million 18-25 year

olds working clearing up the countryside The CWA created 4 million temporary jobs building schools, airport and roads The FERA gave \$500 million to states to help homeless, starving people.

The FCA lent money to farmers to repay loans - \$100 million loaned in 18 months

The AAA paid farmers to produce less and destroy extra

food. Between 1933-1939 famers' incomes doubled

farmers? The NRA encouraged workers and employers to create How did fair working conditions, including the right to join trade the New unions - 2.5 million companies joined the scheme Deal affect The TVA provided work building dams and electric power stations in one of the poorest areas of America industry & workers?

The HOLC gave loans to over 300,000 people to pay their mortagaes

5. Opposition to the New Deal Republica Many Republicans felt FDR was becoming too powerful and letting the government dominate the lives of ns individuals. 1.

2 The Rich The rich were annoyed at having to pay extra tax to support the New Deal. 3 Businesses

Business owners felt the government was interfering with business and giving workers too many rights.

The Supreme Court argued that it wasn't the President's

Some politicians felt the New Deal wasn't doing enough

Huev Long suggested 'Share Our Wealth' where the

sharing them so every family could buy a car, house

government would take all fortunes above £5m, and

Francis Townsend suggested everyone should retire at

60 to allow younger people to enter the job market.

place to make laws on local state business

In 1935, the Court ruled the AAA was illegal

affect farmers? How did it

affect African Americans?

Roosevelt refused to make changes to race discrimination because he feared losing support in the South Government loans were provided to help Native

African Americans were not allowed to live in the newly

Dust bowl farmers had to look for work elsewhere 200,000 African American employed by the CCC 2. But the CCC campsites were segregated

But small farms continued to struggle in rural areas

However big businesses remained powerful and unions were treated with suspicion Large-scale farmers benefited from rising prices and

The Wagner Act gave workers the right to join trade

men's - \$525 per year compared to \$1000 for men Only 10,000 of the 2.5 million CCC jobs went to women The Alphabet agencies gave millions a basic wage

However the NRA set women's wages lower than

programmes. Many women found work in one of the Alphabet

unemployed to get benefits.

iobless. Many people remained poor. It wasted a lot of money on unsuccessful work

Americans buy land and farming equipment

right to set up their own law courts

suffered discrimination

cost of his plans.

went on strike.

The Indian Reservation Act gave Native Americans the

But many Native Americans still lived in poverty and

After FDR's re-election in 1936 he worried about the

Thousands of workers in the car and steel industries

Fewer jobs were being created due to spending cuts.

Unemployment rose to 10.5m in 1938 and production

By January 1939 FDR acknowledged the New Deal was

The Social Security Act allowed the elderly, widows and

disabled people to get pensions and for the sick or

The number of bank failures dropped dramatically.

It interfered a lot in people's lives. It failed to solve unemployment and 1 in 10 remained

GNP (Gross National Product) rose between 1933-1941.

Days lost to work strikes decreased between 1934 and n

New Deal The term for an area of land

Reservatio given over to American Indians

Key word

Alphabet

Social

Act

Security

Supreme

Three Rs

Court

the US recover from the Depression during the 1930s

system

7. Popular Culture in the 1930s

How did

entertain

change

How did

the arts

change

ment

existing laws

FDR's policies designed to help

Definition

Agencies

S	ubject: Histor	У	Topic: Americans' experiences of t	ne D	Depression	and	d New Deal Year	Group:	10	BECKFOOT CODE
8.	WW2 and the econ	omy						Key word	Definition	Siljoy io di licado do da
1	What was the US stance on		 America had not joined the League of Nations at the In 1935 the Neutrality Act banned loans to countries at In 1937, the government stopped the sales of weapo 	ıt war			-	Isolationis m	European af	
2	involvement? How did this change?		 In 1937 Roosevelt made a speech saying peace-lovir When war broke out in 1939, America declared support 	ıg nati	ions needed to st	and u		Lend Lease		olicy of lending y equipment free
3	How did this char affect the econor		 In Nov 1939, Britain and France began buying US wed In March 1941, FDR agreed to lend \$7000 million worth This created valuable production jobs Unemployed men became trainee soldiers, sailors an By 1941, there were only 5.5 million unemployed com 	ipons, n of we	, warships and pla eapons to Britain i ts	ns in t n the		NAACP Neutrality	the Advance People – gro	Association for ment of Colored up that worked for frican Americans
4	How did joining th	ne	In Dec 1941, Pearl Harbor was attacked by the Japar France				he side of Britain and	Neonamy	either side in disagreemer	a conflict or
	economy?		 In Jan 1942, the War Production Board converted peacetime industries to produce weapons In 1944 96,000 planes were produced by US factories 					WAC		kiliary Corps – non up in the US army
			 More unemployed men joined the armed forces – by Farmers benefitted from supplying food to the military Coal, iron, steel and oil industries got a boost too 					WAVES	Non combat navy	group in the US
9. F	low did WW2 affect	the liv	es of women?	10). How did WW2 c	ıffect	the lives of African America	ns?		
2	like for women	 Women were employed in traditional 'female roles' like nursing and teaching They were often expected to leave their jobs once they got married As millions of men joined the military, women began to fill 			African Americans in the US	1. 2. 3.	Early on in the war there was a march planned to protest the treatm African American workers especially in weapons factories The government set up the FEPC to investigate. It found widespread discrimination and recommended the government didn't use these companies By 1944, 2 million African Americans worked in factories			
	happened when war broke out?	2. Be	reir jobs in factories, railways and shipyards etween 1940 and 1945 the number of women in work rose om 12 million to nearly 19 million /omen occupied a third of all America's jobs		2 What was it like for African		Over 1 million African Americ They faced widespread disc	icans fought for the US in WW2 crimination, segregation and limits on the roles could not be officers or pilots		
3	women do in	mi 2. Th	rer 300,000 women took on non combat roles in the itary e WAC was formed in 1942, which allowed women to		Americans in the military?	3.	As the war continued African roles but still in segregated ur	in Americans began to hold these importa		nese important
		3. Wo	serve in the army Women in the WAC would have jobs like mechanics, electricians, typists, drivers and switchboard operators Women could also help in the navy by joining the WAVES		like for 2. There were limits on the number of the second parts of		vere not allowed to serve in the WAVES onber of African Americans joining the WAC and ere often only allowed to treat African American			
4	What was the 1 impact of		omen proved that they were capable of the same jobs		American 3. African American nurses wo women? patients				nowed to fred i	AmediaAmerican
	thee changes?	2. Mo CC 3. Hc 4. The mo 5. Mo	any more married women were employed – which wasn't mmon before the war wever, many men saw this as a threat e government was reluctant to provide childcare help or one equal pay – women's pay was only 60% any expected women to return to their domestic role after W2 e changes that were made were temporary	4	What was the impact of African American involvement in the war?	 1. 2. 3. 4. 	Soldiers fighting abroad foun Many African American soldi them to fight in a war agains in the military and at home The Double V campaign led victory in the war and victory Membership of the NAACP in war, showing people were re	ers felt it was het racism in Gel by an African against inequ acreased to ar	nypocritical tho rmany, while e: American new uality in the US round 500,000 b	t the US asked speriencing racism spaper called for

De	Design & Technology; Food				Unit 2 - Macro/micro-nutrients			Year Group: 10			BECKFOOT SCHOOL POPULATION OF THE POPULATION OF
Macronutrients			Micronutrients & Minerals			Key Vocabulary		,			
1	Carbohydr ates – starchy	Provide slow releasing energy Sources: bread, pasta, oats, potatoes.	y. rice,		er soluble Vitamin B	Helps release energy from food.		1	Macronutrient s		t your body n large amounts
2	Carbohydr ates –	Provide instant energy. Can I or added. Sources: fructose, lactose, fiz	pe natural	-	Complex Vitamin C	Consists of B1, B2, B9, B12 Each B vit is found in different for Helps iron absorption. Improves immu		2	Micronutrients		t your body n large amounts
	sugar	sweets		2		Antioxidant. Sources: fruit and vegetables		3	Water soluble vitamins		that are found in tamins B,C)
3	Protein	Essential for growth and repo a secondary source of energ			oluble Vitamin A	Holos vision Structure of skin and	d ko oping	4	Fat soluble	`	that are found in
	HBV	Proteins that contain all the e		3	Vitamin A	Helps vision. Structure of skin and immunesystem healthy.		4			tamins B,C)
4	Sources: meat, fish, milk, cheese,		, produce		Vitamin D	Sources: dairy, dark green veg, of fuit/veg Helps calcium absorption. Preve		5	Mineral	Nutrients in small c iron, sodi	our body requires amounts (calcium, um)
5	LBV	Proteins that contain some o essential amino acids our bo produce itself.	dy cannot	4		disease. Sources: fish oil, dairy, sunlight, fo cereal and margarine	ortified	6	RDI	Intake. A	nended Daily guide provided by with the quantities d be aiming for
-	Fat	Sources: beans, lentils, grains Provides vitamins A, D, E and		5	Vitamin E Helps maintain healthy skin and ever red blood cells. Sources: dairy, nuts, dark green vertically stress to the second serior of the second seri			Portion control	daily.	diata nat anly have	
6	Saturated	the body warm and offers ins Stored energy. Solid at room temperature of	sulation.	6	Vitamin K	Helps blood clot / needed for he bones Sources: dark green veg, fish, live	ealthy		romon conirol	Healthy diets not only have the correct balance, but have the right portion sizes. Vegetables = double	
7	Salvialea	referred to as bad fat as can increase risk of heart disease	increase –	Minerals				7		cupped palm. Grains/Starches = clenched	
	Unsaturate	Sources: meat, dairy, coconut Liquid at room temperature often		7	Calcium	Keeps bones and teeth health a Sources: dairy, dark green veg, f					palm of hand. lenched fist. fats.
d referred to as healthy fat as can lower risk of heart disease Sources: olive oil, nuts, seeds, avocados NSP / Fibre Helps with digestion and lower		avocados	8	Iron	Needed to transport oxygen aro blood Sources: red meat, wholegrain fo veg		8	Eat Well Guide	Governm amount	provided by the nent to show the each food group d be eating daily	
9	Not / Hore	cholesterol. Sources: wholegrains, nuts, seeds, fruit and veg		9	Sodium	Controls the amount of water in Makes nerves and muscles work	properly	9	Calories	The amo	unt of energy in an bod or drink is
	Water Essential for existence. Transports			Potassium	Help maintain fluid levelsinside our cells					d in calories	
nutrients, helps digestion, flushes out waste, maintains body temperature		11	Magnesium	Helps maintain normal nerve and function	d muscle	10	Source		e nutrient is found ch foods contain it		
☐ Research the RDI amounts ☐ Who is the Eat Well				Well Guide not	suitable for?	☐ How doe physical		l effect our mento	ıl health d	as well as	

Term: Half Term 2 - September

Year Group:10F



Algebra – Working with Symbols

Be careful with negatives.

_	expressions Collect 'like terms'.	x^2 and x are not like terms. 2x + 3y + 4x - 5y + 3 = 6x - 2y + 3 $3x + 4 - x^2 + 2x - 1 = 5x - x^2 + 3$
2	Bracket Expansion	To expand a bracket, multiply each term in the bracket by the expression outside the bracket. $3(m+7) = 3x + 21$
3	Factorise	The reverse of expanding . Factorising is writing an expression as a product of terms by 'taking out' a common factor. $6x - 15 = 3(2x - 5)$, where 3 is the common factor.

Number - Percentages

1	Percenta ge multipliers	The multiplier for increasing by 12% is 1.12 The multiplier for decreasing by 12% is 0.88 (100% - 12%)
2	Percenta ge change	(new value - original value) x 100% original value
3	Reverse Percenta ge	A jumper was priced at £48.60 after a 10% reduction. Find its original price. 100% - 10% = 90% 90% = £48.60 1% = £0.54 100% = £54
4	Simplifying Ratios	Divide all parts of the ratio by a common factor. 5:10 = 1:2 (divide both by 5) 14:21 = 2:3 (divide both by 7)

Geometry and Measure – Area and Perimeter

1	Area of a rectangle/square Length x Width	$A = 36cm^2$
2	Area of a Triangle Base x Height ÷ 2	$ \begin{array}{c c} & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$
3	Area of a parallelogram Base x Perpendicular Height	$_{ m Ton}$
4	Area of a Circle	$A = \pi r^2$ which means 'pi x radius squared'.
5	Circumference of a Circle	$C = \pi d$ which means 'pix diameter'

Ratio, Proportion and rates of change – Ratio

1	Unitary Method	Find the value of a single unit first, and then the value of the required number of units by multiplying

Key Vocabulary

1	Equation	A statement showing that two expressions are equal i.e 2y-17=15
2	Percentage multipliers	The number you multiply a quantity by to increase or decrease it by a percentage.
3	Reverse percentage	Find the correct percentage given in the question, then work backwards to find 100% Look out for words like 'before' or 'original'
4	Perimeter	The total distance around the outside of a shape.
5	Area	The amount of space inside a shape.

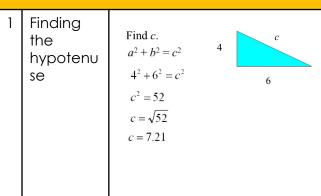
Algebra – Inequalities

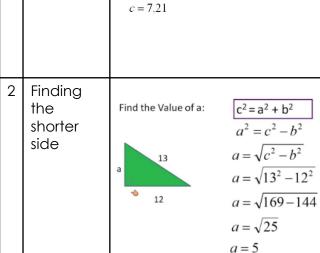
I	Understanding inequality signs	> greater greater than free equal leas leas then free equal
2	Representing inequalities on a number line	x > 1 (, , , , , , , , , , , , , , , , , ,
3	Quadratic Inequalities	You should get two pairs of solutions
		Graphically, you should have two points of

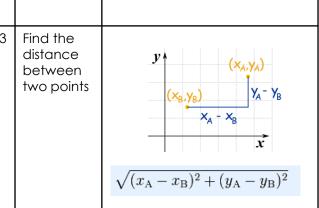
intersection



Geometry & Measure - Pythagoras

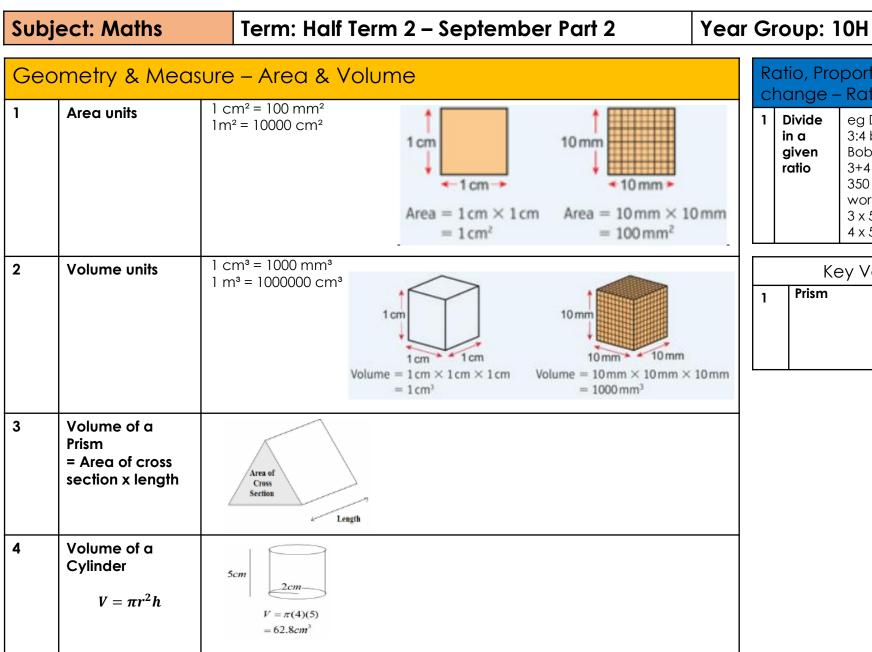






N	umber - Pe	ercentages
1	Percentag e	The multiplier for increasing by 12% is 1.12
	multipliers	The multiplier for decreasing by 12% is 0.88 (100% - 12%)
3	Percentag e change	(new value - original value) x 100% original value
Percentag		A jumper was priced at £48.60 after a 10% reduction. Find its original price.
		100% - 10% = 90% 90% = £48.60 1% = £0.54 100% = £54
3	Compoun d Interest	A bank pays 5% compound interest a year. Bob invests £3000. How much will he have after 7 years?
		$3000 \times 1.05^7 = £4221.30$
4	Exponenti al Graph	The equation is of the form $y = a^x$, where a is a number called the base .
		If $a > 1$ the graph increases .
		If $0 < a < 1$, the graph decreases.
		The graph has an asymptote which is the x-axis .

	Key Vocabulary				
1	Hypotenuse	The longest side on a right angled triangle			
2	Unit Ratio	Used to compare ratios, one of the parts is 1. The only time it is permissible to have a decimal in a ratio.			
3	Unitary method	Find the value of 1 item, before multiplying to find the value of more. Used to work out which products give the better value for money			
4	Simple Interest	Interest calculated as a percentage of the original amount.			
5	Compound Interest	Interest paid on the original amount and the accumulated interest.			
6	Exponential growth	When we multiply a number repeatedly by the same number (≠ 1), resulting in the number increasing by the same proportion each time. e.g. 1, 2, 4, 8, 16, 32, 64, 128			
7	Exponential decay	When we multiply a number repeatedly by the same number $(0 < x < 1)$, resulting in the number decreasing by the same proportion each time. eg. $1000, 200, 40, 8 \dots$			



 $2\pi r^2 + 2\pi rh$

Surface Area of

Cylinder

5

	Ratio, Proportion and rates of change – Ratio							
1	Divide in a given ratio	eg Divide £350 in the ratio 3:4 between Amy and Bob. 3+4=7 (There are 7 parts.) $350 \div 7 = 50$ (Each part is worth 50) $3 \times 50 = £150$ for Amy $4 \times 50 = £200$ for Bob						

	Key Vocabulary							
1	Prism A 3D shape that has							
		a constant cross-						
		section through its						
		length, eg cylinder,						
		triangular prism						

Music Topic: Unit one – Musical forms and devices								Year Group: 1	BECKFOOT SCHOOL POPULATION OF THE POPULATION OF			
1.	Baroque era		2.	2. Classical era 3. Ke				y vocabulary				
1	Baroque period	Era in Western music between 1600 and 1750. Composers		Classical period	Era in Western music between		1	Repetition	Repetition A musical idea is repeated exactly.			
		included Bach, Vivaldi and Handel.	1750 and 1810. Composers 2		Imitation	An idea is another p	s copied in part					
2	Harpsichord	Baroque keyboard instrument, used to play the ground bass, chords and melody.			included Haydn, Mozart and Beethoven.		3	Sequence	the same	n of an idea in part at a wer pitch.		
3	Terraced dynamics	Dynamics that are loud or quiet, nothing in between	2	Forte piano	The first piano, was able to play dynamics.		4	Ostinato	or phrase	A short, repeated pattern or phrase.		
	Basso	A type of instrumental		String quartet	ng quartet Small ensemble of two violins, viola and Cello.		5	Drone	A long held or constantly repeated note(s).			
4	continuo			- '			6	Arpeggio/ broken chord	The notes of a chord played individually			
		Keyboard players often added chordal harmonies.	4	Symphony	A work for Orchestra, normally in four movements.		7	Alberti bass	A broken chord accompaniment (I,V,iii,V) common in the Classical era.			
5	Small Orchestra	Ensemble used in the Baroque period of strings and					,					
)		some wind	2	Solo sonata	A work for soloist, often with piano		0	Anacrusis	•	eat' or pick-up		
4	Suite	A group of works for instruments, often dances.	3		accompaniment.		8	before the first strong beat		e tirst strong		
5	Sonata	Work for solo instrument with continuo	4	Solo concerto	A work for soloist, accompanied by an Orchestra		9	Dotted rhythms	notes (giv	using dotted ves a 'jagged' cy' type of		
6	Oratorio	Work for instruments and voices based on the bible.		Balanced,	Balanced parts of a		10	Syncopation	effect). Off beat	accents		
7	Chorales	A hymn for four part voices		regular phrases	, ,			Conjunct		at move in steps.		
/		,	5	-	sentence) e a four		11	CONJUNCI	140162 1110	11110ve 11131eps.		

Trio sonata

8

A piece for two soloists and

continuo

sentence) e.g. four

Notes that move in

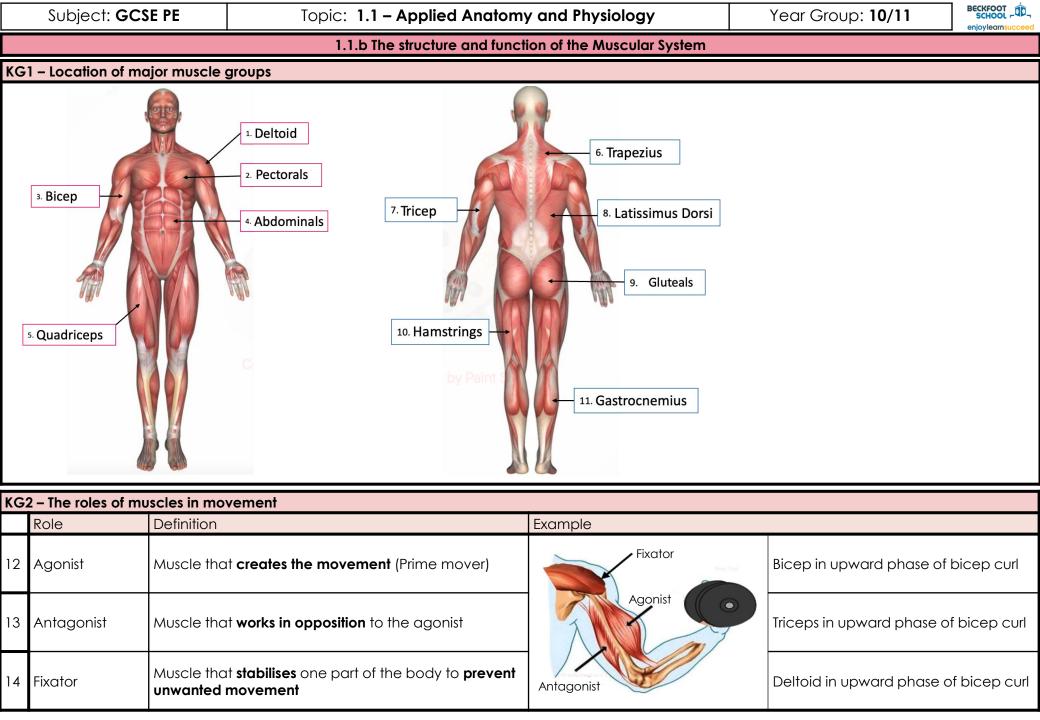
leaps/intervals.

Disjunct

12

bar phrases.

	Music	Topic	: Un	Unit one – Musical forms and devices Year Gro			ear Group: 10/11			
4.	Romantic era		7	Form and Stru	octure		8. Key vocabulary			
	Romantic era Era in Western music between 1810 and 1910. Composers included		1	Binary (AB)	Two sections: A usually ends in a related key (e dominant or relative minor), but B returns to the B will contain with some change/contrast.		1	Chord	Two or more notes played together.	
1		Tchaikovsky, Grieg, Schumann, Dvorak, Brahms, Verdi and	2	Ternary (ABA)	Three sections: section B provides a contrast (e tune key change). A may return exactly or with slight changes	_	2	Triad	Three notes played together.	
2	Lyrical, expressive melodies	Wagner. Instrumental melodies that sound like someone singing,	3			3	Chord Seque nce	A series of chords.		
		often with large leaps.	Ш	minor b.16) C major (sub dominant of G in b.21) A major (tonic major in b.23) and E minor in bar 27.			Diaton ic	The chords all belong to the		
3	Large orchestra	An orchestra with all of the instrumental families, often 80 or	4	Minuet and trio III: AB: II The minuet was a type of graceful dance from the 17- 18th century, and was often used as the 3rd movement in symphonies in the Classical era. The		4	Harmo ny	key.		
	more players.		II:CD :II AB)	minuet had two repeated sections, the trio had new repeated sections, with a return to the min			C Major	Happy sounding key – no sharps		
	Wide range of dynamics			\(\frac{1}{2} \\ \fr	the end (no repeat).		5	<i>m</i> ajo:	or flats.	
4		above loud, large crescendo and	5	Variations	The main theme (tune) is repeated and developed a number of times in a variety of different ways.			F	Happy sounding	
		diminuendo and sudden changes.	6	Strophic	A simple form where the song uses the same melody over and over.		5 Major		key – 1 flat (Bb)	
	Chromatic	Chords with notes			melody ever and ever.		G		Happy sounding	
5	chords	outside the normal key e.g. Neapolitan	6.	Cadences			5	Major	key – one sharp (F#)	
		sixth.	1	Perfect	Strong ending – sounds 'finished'; a musical	full	Bb		Happy sounding	
	Programme music	Music written to tell a story, often based on		Dlagge	stop. V-I Sounds finished but softer, Amen. IV-I		5	Major	key – two flats (Bb and Eb)	
6		other art forms such as poetry or art.	art forms such						(DD GHG ED)	
	Opera	A theatrical work	3	Interrupted Moves to an unexpected chord. Surprise, V-vi.			D	Happy sounding		
7		that combines text, costume and music.	4			9	major	key – two sharps (F# and C#)		
Wic	der listenina: Fo	r Romantic pieces listen to	Swo	ın Lake bv Tch	aikovsky and Ride of the Valkvries by Waaner.					
	Wider listening: For Romantic pieces listen to Swan Lake by Tchaikovsky and Ride of the Valkyries by Wagner.									



Subject: GCSE PE		Topic: 1	.1 – Applied Anatomy and Pl	nysiology	Year Group: 10/11	BECKFOOT SCHOOL POPULATION OF THE POPULATION OF		
KG3 - A	Antagonistic muscle							
	Joint	Muscle Group	Movement	Example				
15	Elbow	Biceps	Flexion	3	Preparing to shoot in netball			
16	LIDOW	Triceps	Extension		Execution of shot in netball			
			Flexion		Throwing the ball up in a tennis serve			
17		Deltoids	Extension	Paris	Preparing to bowl in rounders			
	Shoulder		Abduction	8	Outward phase of star jump			
18	Silodidoi	Latissimus Dorsi	Adduction		Inward phase of star jump			
19		Pectorals	Horizontal adduction		Releasing a discus			
20		Trapezius	Extension of the neck		Binding with opponent during a rugby scrum			
21	Knoo	Hamstring	Flexion		Preparing to kick a football (kicking leg)			
22	Knee	Quadriceps	Extension		Execution of kicking a football (kicking le	eg)		
23	Vertebral Column	Abdominals	Flexion		Curl the torso up during a sit-up			
			Extension		During an arabesque in gymnastics			
24	Нір	Нір	Нір	Gluteals	Abduction	*	Outward phase of star jump	
			Rotation		Moving into 1st position in ballet			
25	Ankle	Gastrocnemius	Plantarflexion (pointing toes)		A ballet dancer as they go en pointe			

	Subject: GCSE PE	Topic: 1.1 - Ap	plied Anatomy	and Physio	logy	Year G	BECKFOOT SCHOOL POPULATION OF THE SCHOOL POPUL			
	1.1.c Movement Analysis									
KC	KG1 – Lever Systems									
1	Lever A rigid bar that moves around a fulcrum when effort is applied to move a load									
	Component	Definition	Example							
2	Lever	A rigid bar	Bicep cu	rl (upward ph	ase)	The	radius and ulna are t	he rigid levers		
3	Fulcrum	A fixed pivot point		Effort			elbow joint is the pivo ch movement occurs	•		
4	Effort	Force applied to move the leve	er	, Evet			bicep is the effort the e to cause moveme			
5	Load	The weight / resistance to be moved		Pivot			The dumbbell is the load being moved			
KC	KG2 – Classes of lever									
	Class of Lever	Description		Acronym	Example					
6	First class lever	Fulcrum is between the effort an	nd load	EFL			Heading a football			
7	Second class lever	The load is between the fulcrum	and the effort	d the effort ELF			Long jump take off			
8	Third class lever	The effort is between the fulcrun	n and load	FEL			Bicep curl			
M	echanical advantage									
	Definition		Class of lever wit	h mechanica	ıl advantage	Example				
A lever can move a large load with a smaller effort because The load is closer to the fulcrum than the effort is			All second-class Some first-class le			1	Long jump take c	off		

	Subject: GCSE	PE	Topic: 1.1 – Applied Anatomy	and Physiology	Physiology Year Group: 10/11				
KG:	KG3 – Planes of movement								
	Plane	Definition			Types of	f movement	Sporting Example		
10	Frontal Plane		A vertical plane dividing the body into fro	ont and back	Abducti Adducti		Cart	wheel	
11	Transverse Plane *		A horizontal plane dividing the body into	top and bottom	Rotation	١	Discu:	s throw	
12	Sagittal Plane		A vertical plane dividing the body into let	it and right	Flexion Extensio	on	100m	a Sprint	
KG	4 – Axes of moveme	ent							
	Plane	Definition	in	Sporting Exar	nple				
13	Frontal Axis		Front to back			Cartwhee	el in gymnastics		
14	Transverse Axis	G	Side to side			Front son	nersault in diving		
15	Longitudinal Axis		Top to bottom			Spin in ic	e skating		

ח	ra	m	•

Plot

GCSE Component 3: An Inspector Calls

Themes

Year Group: 10

BECKFOOT POP enjoylearnsucceed

Private

ownership

resources.

Direct moral instruction.

Verbal or written attack.

Society controlled by men.

The space

Principles

of right and wrong.

to ridicule.

1	A - 1 1	The	Dirlings colobrate Sheila and Corald's engagement			key vo		
1	Act 1	Birlin	Birlings celebrate Sheila and Gerald's engagement. g boasts to the men. The Inspector arrives: Birling admits I Eva, and Sheila confesses to getting her sacked from ards	1	Social responsibility	The Inspector goes to the Birlings' to encourage them to be accountable for their actions, and to take responsibility for others	1	Socialism (Political theory)
2	2 Act 2 Gerald admits 'rescuing' Eva, then leaves. Mrs Birling confesses she denied Eva help and demands the baby's father be punished, not realising it's Eric, who then enters		2	Age	Priestley shows hope lies with the young. While Mr and Mrs Birling stubbornly refuse to change, Sheila and Eric accept responsibility, suggesting the younger generation can learn and build a better future	2	Capitalist	
3	Eric admits drinking, forcing himself on Eva, and stealing £50. The Inspector gives a final speech and leaves. Gerald returns. Sheila and Eric feel guilty but Mr and Mrs Birling refuse blame. They convince themselves it was a hoax—until a call says a girl has died and an inspector is coming.		3	Class	Before WWII, Britain was deeply divided by class. The war effort and rationing helped break down barriers, bringing people of different classes closer together.			
			4	Gender	Written after WWII, An Inspector Calls reflects changing gender roles. As women filled men's jobs, they gained freedom and independence, shown through Eva Smith. Priestley contrasts this with Mr Birling's old-fashioned sexism	3	Didactic	
	Context		5	Socialism	The play is a symbol of Socialism – he wants everyone to look after each other and to view community as very important. He is sent to uncover the family's wrongdoings	4	Polemic	
1	Priestl	Party. Concerned about social inequalities. Influential in developing the idea of the welfare			and to make them see that they should take responsibility for others			
	<u> </u>		 state. Set in 1912 at the end of the Edwardian era. 		Capitalism	Priestley shows Capitalism as self-centred and amoral, reducing people to profit. Mr Birling symbolises its arrogance and dominance at the start of the century	5	Patriarchal
2	Histori	 Set in 1912 at the end of the Edwardian era. Titanic sank in 1912. WW1: 1914-1918. WW2: 1939-45. 			Dramatic Devices			
			 First performed 1945 in Soviet Union. First performed 1946 in Britain. 		Dramatic Irony	The audience knows more than characters.	6	Fourth wall
3	Politic	 Liberal party in power in 1912. Labour party in power in 1945. Formation of the 		2	Sounds	Doorbell, telephone interrupt the Birlings comfort and complacency.		
	4 Social		 'Welfare State' 1945-1951. In 1912 only men over 21 with property could vote. 	3	Lighting	"pink and intimate" to "brighter and harder" when the Inspector arrives. Interrogating morals, cutting through the lies and pretence.	7	Morality
			 1903-1914 saw the rise of the Suffragette movement. 1918 all men over 21 and women over 30 who met a property qualification could vote. 	4	Entrances/ Exits	Increase tension e.g. Eric walks in just as the audience realise that he is the father. Gerald's 'exit' in Act 2 prevents his remorse developing.		
			1928: All people over 21 could vote.	5	Props	Photograph: All Eva? Symbolic of the faceless poor that the wealthy pretend not to see. Sheila's ring as a symbolic of patriarchal control.	8	Caricature
4			1912: 10% of the population owned 90% of the wealth. No government assistance available. Charities were the only source of help for the poor.		Stage directions	Indicate character attitudes, development, relationships setting and mood.		

Key Vocabulary cialism Collective ownership

1	Soc (Pol the

litical ory) resources.

Didactic

Polemic



Fourth wall

between the actors and the audience.

Morality

Caricature Exaggerati on of characteris

tics usually

1)	ra	m	\sim
\boldsymbol{L}	ı		u

GCSE Component 3: An Inspector Calls

Year Group: 10



Characters

Characters					
	Arthur Birling	 head of the Birling household. wealthy 'hard-headed' business-man. active member of the community thinks that he might be in the running for a Knighthood. 	5	Gerald Croft	 Around 30 years old Attractive young man about town Comes from upper class business owner family Confident and charming Has affair with Eva Smith
2	Sybil Birling	 Mr Birling's wife cold hearted and snobbish prominent member of a women's charity still sees Eric and Sheila as children devoid of responsibility 	6	Inspector Goole	 Not a big man but creates an 'impression of massiveness, solidity and purposefulness'. Has a tendency to interrupt and control the conversation.
3	Eric Birling	 Son of Arthur and Sybil Birling Half shy-half assertive, not at ease Lacks confidence Drinks a lot Has an affair with Eva Smith Steals money from father to help Eva 	7	Eva Smith/Daisy Renton	- Audience never meets Eva Smith - Young woman in 20's - Strong willed with a good sense of humour -Changes name to Daisy Renton
4	Sheila Birling	 Daughter of Arthur and Sybil Birling Early 20's Celebrating engagement to Gerald Croft 	Revision - AQA - An Inspector Co	- BBC Bitesize alls - In Contex alls - In Contex	Calls - GCSE English Literature t (Part 1 of 2) – YouTube t (Part 2 of 2) – YouTube uTube

- Giddy, naïve, childish

and intelligent

Can be assertive, insightful



Berkoff's Background

Born 3rd August 1937. From Stepney, London. Actor, Director, Writer. Romanian Jewish background.

Вє	Berkoff's Theory and Style				
1	Total Theatre	-Non-naturalistic and expressionistic			
	mediic	-Every aspect of theatre must have purpose: every movement, line, lighting, sound effect and prop must create a powerful experience for the audience. -Extreme moods to give the audience an overwhelming experience and to shock, amuse, scare, or amaze them.			
2	Minimalist	-Usually uses minimal, bare stages and makes use of the actors' bodies over anything else.			
3	Political themes	-His plays often criticise social systems, corruption, and the abuse of power			

Ke	Key Influences				
Ke	ey inilioences				
1	Brecht influence	-Verfremdungseffekt (alienating the audience - making the familiar seem strange).			
2	Artaud influence	-Theatre of danger and cruelty, using the power of words and gestures to release intense emotions.			
3	Lecoq influence	Mime, movement, masks, and ensemble acting are all characteristics of Lecoq's theatre, which Berkoff uses.			

	-					
	KEY TECHNIQUES IN TOTAL THEATRE					
1	Base Pulse	The rhythm and ensemble movement used in choral work				
2	Chorus	A group of performers found in Greek drama who comment				
		together on the dramatic action both vocally and physically				
3	Ensemble	a group of actors performing together				
4	Grotesque	Extremely overexaggerated to the point where it looks disturbing				
		and ugly				
5	Japanese Noh	Stylised classical Japanese dance drama using characters				
	theatre	masks				
6	Kabuki	A classical Japanese dance drama with elaborate face make				
		up, elegant movement and melodramatic expressions.				
7	Mie	A character pose using a heightened physical style				
8	Neutral state	When you are in a state of balance before you become a				
		character				
9	Neutral mask	Used to make your body the focus of expression				
10	Mime	Suggesting an action or handling of an object using gestures				
11	Motif	A repeated pattern				
12	Burden	Something that a character feels guilty about, a problem the				
		have or a way that they are being oppressed by society. This is				
		usually shown by the actor through their physicality				
13	Animalistic Trait	Presenting a character as an animal				
14	Vocal colouring	Painting a picture with words, using vocal skills to the extreme				
15	Tableaux	Creating a picture on the stage (a still image)				
16	Mie	'Mie' – when the actor strikes a pose and holds it for a while –				
		rest of cast freeze.				
17	Direct Address	Directly speaking to the audience				
18	Kvetch	To complain all the time. Usually with humour.				
19	Levels of Tension	A technique used by Lecoq but also in Berkoff's work				
		1 – Exhaustion: Heavy, like a jelly fish				
		2 – Laid back: No worries, relaxed, on a sunny beach				
		3 - Neutral: No story, blank				
		4 - Alert: Curious, lost something, confused 5 - Suspense: Suspicious, cautious				
		6 – Passionate: Melodramatic, despair				
		7 – Tragic: Grief, petrified, frozen with fear				
l		Thagie. Oner, pennica, nozem wiim ieai				



Critical

Reflection

Subject: **Photography**

The process of analysing your work and

idea to the next. (What, How, Why?)

explaining how you have gone from one

Topic: Forces (Chemical Force/Applied Force)

Adobe photoshop to create eye-

catching and unique images that

showcase your creative skills.

Year 10

Brusho Ink

enjoylearnsucceed

A powered ink

Key Vocabulary

	Knowledge	e Group 1 Chemical/Applied Aesthetic		Knowledge (Group 2 Chemical Photography
1	Chemical Aesthetic	Having the appearance of a chemical substance or reaction. Something that looks science related.	1	Framing	The process of positioning the object you wish to photograph in the composition whilst also considering the background.
2	Applied Force	An item that has had a specific force applied to it, for example something that has been crushed.	2	Experimenta photography	Creating a wide range of
3	Lava lamp	A vessel in which two liquids interact and move. Often different bright colours and lit from below.			unique approach to use of lighting, framing and composition.
4	Artificial/ Controlled Lighting	Using electric light to improve the look of an object when photographing it. This can be a lamp or torch.	3	Resourceful approaches	Linked to experimental photography. Making use of available resources to improve the look of your photos eg; using a smart phone as a torch or
5	Controlled background	Creating a clear and featureless space in which to photograph your chosen object. This can be made of simple materials like coloured card.	4	Adaptive approaches	of successful images. Responding
1	Knowled Contact	ge Group 3 Reviewing Photographs An A4 sheet of 35 of your photographs that	┞		to the success of previous images to inform future ideas.
'	Sheet	will enable effective review of your work.		Know	rledge Group 3 Editing
2	Annotation process	Green or red boxes placed around images on the contact sheet, with comments to identify successes and areas to improve on. And including any photographic	1	Reframing	Using the cropping technique to improve the composition of an image by removing unwanted elements from the edges of the image.
3	Review	techniques used. These contain 1 or 2 of your best images	2	Colour editing	Enhancing the look of an image by adjusting Hue Saturation , Contrast & Brightness and Vibrancy in Adobe
,	slides	from the contact sheets to help celebrate and analyse your work.			Photoshop.
	Critical	The process of analysing your work and	3	Creative	Using Filters and Layer Styles in

edits

1	BIOSHO IIIK	that can be added to water to create vibrant effects.
2	Macro Setting	Used for close up photography.
3	Crop	To remove part of an image.
4	Focus	When an image is clear and objects have sharp outlines.
5	Brightness/ Contrast	A tool to manipulate light and dark effects in a photograph.
6	Hue Saturation & Vibrancy	Tools to manipulate the colour effects of a photograph.
7	Filters	Special visual effects that can be added to a photograph.
8	Layer Styles	One or more layer effects and blending options applied to a layer.
9	HDR Toning	A tool in photoshop for advanced colour editing techniques.

Topic: Crime and Punishment

Year Group:10



Re	Religion crime and causes				
1	What are good intentions?	When an action intents to have a good consequence			
2	What are evil intentions?	Having the desire or thought to intentionally harm someone else			
3	How does upbringing and poverty impact crime?	People may be brought up thinking crime is acceptable or may use crime to better their lives e.g.: selling drugs for money			
4	How does mental illness and addiction impact crime?	People are less aware of their actions and the consequences. Desperation for drugs may take over their desire to be moral.			
5	How do people oppose an unjust law?	They believe the law is wrong so will break it. E.g. stealing from the rich			
Religious Views on Criminals					

	crime?	Cron men desire te se meran
5	How do people oppose an unjust law?	They believe the law is wrong so will break it. E.g. stealing from the rich
Re	eligious Views on	Criminals
1	What is hate crime?	Crime against a person because of race, gender, sexuality etc.
2	How do religions respond to hate crime?	Hate crime is not accepted and should be punished
3	How do religions respond to murder?	Punishment such as prison or going to hell
4	How do religions respond to theft?	Punishment then reformation, help the person if its through desperation
5	Responses to people committing crime	Seek help to reform the person, use places such as prison for rehabilitation. Punishment such as prison

Religion and Punishment						
1	What is the aim of retribution?	Getting your own back- revenge				
2	What is the aim of deterrence?	To stop people committing crimes through negative consequences				
ო	What is the aim of reformation?	To help people change their lives and stop their bad intentions/actions				
4	What is the purpose of prison?	A form of punishment and to isolate them from society				
5	What is the purpose of corporal punishment?	Cause physical pain or disability as a way of punishing wrong doing				
6	What is the purpose of community service?	People can apologise to the community they wronged through helping actions				

Tre	Treatment of criminals					
1	What are the aims of forgiveness?	To help people become closer to God. Helps someone to reform. Most loving action				
2	Why do religions give forgiveness?	Jesus forgave people. God is loving and just. Only God can judge				
3	What is the death penalty?	Putting someone to death due to the severity of their crime				
4	Two reasons for the death penalty	Stops reoffending Retribution				
5	Two reasons against the death penalty	Teachings of forgiveness Religions are against murder				

Punishment

Topic: Crime and Punishment

Year Group:10

'love thy neighbour'

Bible NT



'Blessed are the peace

makers'

Bible NT

Key Vocabulary

'Eye for an Eye'

Bible OT

Quran

1	Addiction		Being addicted to/dependent on a particular substance; can be a cause of crime (eg stealing money to pay for illegal drugs).		12	Law		country demands its citizens follow, the of which leads to punishment.
2	Community		Punishment involving the criminal doing a set number of hours of physical labour/work in their local community.		13	Mental illness		condition that can cause changes to a ehaviour; can be a cause of crime.
	service			·	14	Murder	Unlawfully	killing another person
3	Corporal punishment		Punishment in which physical pain is inflicted on the criminal.		15	Poverty		of being without the things needed for a e quality of life; can be a cause of crime.
4	Crime		Action which breaks the law; can be against the person (eg murder), against property (eg vandalism), or against the state (eg treason).		16	Principle of utility	most peop	ept of acting out of the greater good for the ble. (eg removing a dangerous criminal from order to protect others).
5	Death penalty		Capital punishment; the execution of a criminal which is sanctioned by the state.		17	Reformation	why their l	nishment; helping the criminal see how and behaviour was wrong, so that their mindset
6	Deterren	ice	Aim of punishment; the threat of punishment as a way to put a person off committing crime (eg knowing they could go to prison if they steal).				changes f	or the better.
					18	Retribution	Aim of punishment; getting the criminal back for their crimes.	
7	Z Evil intentions		Having the desire to deliberately cause suffering or harm to another.		19	Sanctity of life		life is sacred/special because it was created
•			Letting go of blame against a person for wrongs they have		'7	Sunciny of me		r because we are each unique individuals.
8	Forgiven	iess	done; moving on.		20	Theft	Taking sor	nething without the owner's consent.
9	Greed		Reason for committing crime – wanting or desiring something or more of something.		21	Unjust law		quirement within a society that is believed to a cause of crime if a person believes they
10	Hate Crime		A crime committed because of prejudice views about a person or group.					llow (or must act against) a law they believe
11	11 Prison		Imprisonment is a form of punishment where a criminal is locked in a secure guarded building (prison) for a period of time.		22	Upbringing		nment a child lives in, and the instructions ve, while they are growing up; can be a crime.
-	Key Quotes:		'Allah hears your hearts intention'		'Do no	t cast yourself into destr your own hands' Quran	uction with	'let everyone be subject to the governing authorities' Bible NT

Students should study religious teachings, and religious, philosophical and ethical arguments, relating to the issues that follow, and their impact and influence in the modern world. They should be aware of contrasting perspectives in contemporary British society on all of these issues.

'Turn the other cheek'

Bible NT

'Thou Shalt not Kill'

6th commandment

Bible OT

Subi	iect:	Science	(Physics))
			(,	,

Topic: Energy

Year Group: 10



Ene	Energy equations					
1	$E_k = \frac{1}{2} \text{ mv}^2$	Kinetic energy = $\frac{1}{2}$ x mass x speed ²				
2	E _p = mgh	Gravitational potential energy = mass x gravitational field strength x height				
3	Ee = ½ ke ²	Elastic potential energy = ½ x spring constant x extension ²				
4	P = E/t	Power = energy ÷ time				
5	P = W/t	Power = work done ÷ time				
6	,	fficiency = useful energy output ÷ tal energy input				
7	$\Delta E = mc\Delta \partial$	Energy change = mass x specific heat capacity x change in temperature				

Required Practical 1 – SHC
Independent variable – material tested
Dependent variable – SHC
Control variables – starting
temperature, time taken and insulation.

Linking decrease in one energy store to an increase in temperature and an increase in thermal energy.

Energy stores and systems		
1	8 stores of	Kinetic (movement), internal (thermal), chemical (from chemical
	anarav	reactions) elastic notential (stretched/squashed chiects)

	energy	reactions), elastic potential (stretched/squashed objects), gravitational potential (raised objects), electrostatic (opposite charges), magnetic and nuclear (energy from an atom).
2	3 methods of energy transfer	Mechanically – when work is done (force is used). Electrically – when moving charges are involved. Heating – energy is transferred from a hotter object to a cooler object.
3	Friction and lubrication	When solid objects move over a surface friction is created which leads to the transfer of thermal energy. Lubrication can be used to reduce friction and therefore heat loss.
4	Methods of insulation	Thick walls, loft insulation (reduces convection) cavity walls (reduced convection and conduction) and double glazing (reduced conduction).

Energy resources 1 4 types of non- C

	'	renewable energy	but give out the most energy. Nuclear is also non- renewable.
	2	7 types of renewable energy	Solar (from sunlight), Geothermal (heat from earth), Wind (turbines), Hydroelectric (water in dams), Wave, Tidal (river barrages) and Biofuels (burning organic matter).
advantages produced.		•	Renewable - (will not run out), less pollution produced. Non-renewable – meet higher energy demands
	4	Key disadvantages	Renewable – Impact on environment to build plants, not very reliable, (can't always meet demands) costly so although less pollution not everyone willing to pay higher bills. Non-renewable – greenhouse gas emissions of carbon dioxide (cause global warming) and sulphur dioxide (acid rain).

Coal, oil and natural gas (fossil fuels) - all will run out,

Key Vocabulary

- /		
1	Conservation of energy	Energy can never be created or destroyed just transferred from one store to another.
2	Dissipated	A term used to describe ways in which energy is wasted.
3	System	An object or group of objects.
3	Power	The rate of transfer of energy OR the amount of work done in a given time.
4	Specific heat capacity (SHC)	The amount of energy required to raise the temperature of 1kg of a material by 1°C.
5	Conduction	How thermal (heat) energy is transferred in solids by particles colliding.
6	Convection	How thermal energy is transferred in liquids or gases. Relies on density of particles and convection currents.
7	Insulation	Methods to reduce heat loss from an object.
8	Efficiency	When energy is transferred, some is wasted. The less energy is wasted, the more efficient an object is.

Required practical 2 (PHYSICS ONLY) -

investigate the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material. The better the insulator, the longer it takes the temperature to cool down.

Chemistry

Structure and Bonding

Year 10



	lonic bonding		
1	Particles involved	Oppositely charged ions	
2	Elements involved	Compounds made from metals and non-metals	
3	Caused by	Transfer of electrons from metal to non-metal, creating oppositely charged ions.	
4	Representation	Key Na CI	

Properties of ionic compounds			
1	Structure	Giant ionic lattice	
2	Do they conduct electricity?	When solid, no – ions cannot move. When molten or in solution, yes – ions can move.	
3	Melting and boiling points	High – strong forces of attraction between oppositely charged ions	

	Metallic bonding		
1	Particles involved	Atoms sharing delocalised electrons	
2	Elements involved	Metallic elements and alloys	
3	Representation	+ + + + + + + + + + + + + + + + + + +	

Properties of metals		
1	Structure	Regular lattice of positive metal ions in an 'sea' of delocalised electrons
2	Do they conduct electricity?	Yes, delocalised electrons can move through the metal
3	Melting and boiling points	High – strong forces of attraction between positive metal ions and delocalised electrons
4	Hardness	Metals are relatively soft – layers can slide. Alloys are hard.

	Alloys			
1	Structure	Metal atoms mixed with another element (metal or non- metal)		
2	Representation			
3	Hardness	Harder than pure metal as layers are distorted and cannot slide		

	Key Vocabulary		
1	Melting point	Temperature at which a solid turns to liquid.	
2	Boiling point	Temperature at which a liquid turns to gas.	
3	Cation	Positively charged particle	
4	Allotropes	Different structural forms of an element.	
5	Delocalised	Electrons that are no longer bound to a single atom, and are free to move	

CI	nemisti	γ

Structure and Bonding

Carbo

Property

Hard, high melting point

Does not conduct electricity

Conducts electricity

Soft

Year 10



Covalent bonding Particles involved Atoms sharing a pair of electrons **Elements involved** Non-metallic 2 elements and compounds For ammonia (NH₃) 3 **Representation** H-N-H

H

	Giant covalent structures								
	1	Bonding	Strong covalent bonds between atoms						
	2	Do they conduct electricity?	Only those with delocalised electrons						
ξн	3	Melting and boiling points	High – strong covalent bonds between atoms						

Diamond

Graphite

/Graphen

electrons				
High – strong covalent bonds between atoms				
n				
Explanation				
Every carbon bonded to 4 others with strong covalent bonds.				
No ions or delocalised electrons.				
Layers of carbon atoms can slide.				
Each carbon has a delocalised electron, which can carry charge.				

Other giant structures				
Fullerenes	Structure	Molecules of carbon atoms with hollow shapes		
	Uses	Fullerenes – drug delivery. Nanotubes – strengthen composite materials.		
Polymers	Structure	Repeating monomers connected by strong covalent bonds		
$\begin{pmatrix} H & H \\ -C & -C \\ -H & H \end{pmatrix} n$	Properties	Relatively high melting points due to strong intermolecular forces.		
Nanochemistry (chemistry				
NONOCHEMISITY (CHEMISITY				

	compounds					
1	Bonding	Strong covalent bonds between atoms, weak intermolecular forces between molecules.				
2	Do they conduct electricity?	No, as there are no charged particles.				
3	Melting and boiling points	Low – weak forces of attraction between molecules				

Properties of molecular

Number Histry (Chemistry only) C1 1 C

1	Nanoscience	Study of particles between 1 and 100 nm in size.
2	Nanometre	A billionth of a metre (1 x 10 ⁻⁹ m)
3	Uses of nanotechnology	Medicine, electronics, cosmetics, catalysts.
4	Advantages	Wide range of applications due to increased surface area to volume ratio and therefore reactivity
5	Disadvantages	Long-term impact on health not fully understood.

Su	Subject: Science (Physics)				pic: Energy Yea			ır Group: 10			BECKFOOT SCHOOL POPULATION OF THE POPULATION OF				
Ene	rgy equati	ons	Ene	rgy stores an	d syst	ems		Key Vocabulary							
1	E _k = ½ mv ²	Kinetic energy = ½ x mass x speed²	1	energy chen (stret (raise		·		mical reactions), elastic potential		Kinetic (movement), internal (thermal), chemical (from chemical reactions), elastic potential (stretched/squashed objects), gravitational potential			Conservation of energy	Energy can never be created or destroyed just transferred from one store	
2	E _p = mgh	Gravitational potential energy = mass x				aised objects), electrostatic (opposite charges), agnetic and nuclear (energy from an atom).		2	Dissipated	A term used to describe ways in which energy is					
		gravitational field strength x height	2	3 methods of energy		chanically – when work is done (force is used). trically – when moving charges are involved.		3	System	An object or objects.	group of				
3	Ee = ½ ke ²	Elastic potential energy = ½ x spring constant x extension ²		transfer Heat		ting – energy is transferred from a hotter object to ler object.	o a	3	Power	The rate of tro energy OR the work done in	e amount of				
4	P = E/t	Power = energy ÷ time	3	and crea		When solid objects move over a surface friction is created which leads to the transfer of thermal energy. Lubrication can be used to reduce friction and therefore		4	Specific heat capacity (SHC)	The amount or required to rotemperature	ise the of 1kg of a				
5	P = W/t	Power = work done ÷ time	4	+ + + + + + + + + + + + + + + + + + + +		heat loss. Thick walls, loft insulation (reduces convection) cavity walls (reduced convection and conduction) and double glazing (reduced conduction).			material by						
6		r = useful energy total energy input		insulation Walls				5	Conduction	How thermal is transferred in particles colling					
7	ΔE = mc∆∂	Energy change = mass x specific	Ene	Energy resources				6	Convection	How thermal transferred in					
	heat capacity x change in		1	1 4 types of non- renewable energy		Coal, oil and natural gas (fossil fuels) - all will run out, but give out the most energy. Nuclear is also non-renewable.				gases. Relies on density of particles and convection currents.					
Red	uired Prac	temperature	2	7 types of		Solar (from sunlight), Geothermal (heat from earth),		7	Insulation	Methods to re loss from an c					
Independent variable – material tested Dependent variable – SHC Control variables – starting			renewable energy		Wind (turbines), Hydroelectric (water in dams), Wo Tidal (river barrages) and Biofuels (burning organi- matter).		8	Efficiency		ed. The less ted, the more					
temperature, time taken and insulation.		3	Renewable - (will not run out), less pollution produ Non-renewable – meet higher energy demands		ıced.			efficient an object is.							
Linking decrease in one en store to an increase in temperature and an increase in thermal energy.		4	Key disadvantages Renewable not very resonal though higher bills Non-renewal dioxide (c)		Renewable – Impact on environment to build pla not very reliable, (can't always meet demands) of so although less pollution not everyone willing to p higher bills. Non-renewable – greenhouse gas emissions of co- dioxide (cause global warming) and sulphur dioxi (acid rain).	costly cay arbon	Required practical 2 investigate the effect materials as thermal insulators an affect the thermal in material. The better longer it takes the te down.		fectiveness of and the factor I insulation preer the insulate	ors that may operties of a or, the					

Subject	Subject: Trilogy Science (Biology) Topic: Infection and Response Year Group: 10 BECKFOOT OF SCHOOL OF S									
Knowledge	: Human Defence System	Knowledge:	: Viral d	liseases			Ke	y Vocabulary		
Skin	Acts as a barrier and produces antimicrobial secretions	Measles Fever and red skin rash – can be fatal. Spread by coughs and sneezes HIV Human Immunodeficiency Virus				1	Communica ble Disease	A disease that can be passed on to others		
Nose	Traps particles that contain pathogens	Flu-like illness. Virus attacks immune system. Spread by sexual contact or exchange of bodily fluids TMV Tobacco Mosaic Virus			2	Non Communica ble Disease	A disease that cannot be passed on to others.			
Trachea	Secretes mucus which traps pathogens			t pathogen o	causes discolouration (mosaic) in cts growth.	╝	3	Pathogen	Microorganisms that cause infectious	
Stomach White	Produces acid which kills pathogens Defend against pathogens	Knowledge: Salmonella fo		soning Sp	pread by bacteria in food. Causes fever, bdominal cramps, vomiting and diarrhoea	1.	4	Bacteria	diseases. Reproduce rapidly in body and may produce poisons (toxins).	
blood cells	by: phagocytosis, making antibodies and making antitoxins	Gonorrhoea Sexually transmitted disease (STD). Causes thick yellow/green discharge from genitals.			5	Virus	Live and reproduce in cells, causing cell damage.			
Knowledge	: Antibiotics and painkillers	Knowledge: Fungal diseases		┛i	Kno	owledge: Vaccination				
		Example Rose black spot		41						
Antibiotics	Treat disease caused by bacteria	Symptoms Effect	L	Leaves turn y	yellow and drop off – no esis or growth	\dashv	1		ty of dead or inactive injected into the body	
	Specific antibiotics treat specific diseases	How it spread	ds V	Water or win	nd		2 White blood cells produce spearatibodies		lls produce specific	
	Reduced deaths from	Prevention Fungicides and remove affected leaves Knowledge: Protist diseases			3	If the same pathogen re-enters the body white blood cells can produce antibodic				
	infectious bacterial diseases	Example				_	quickly			
	Cannot treat viral pathogens	Symptoms		Fever and			4	Antibodies prev		
	·	How it spred	ads 	humans	spreads malaria protist by biting		5	immune, the po	rtion of the population is athogen is less likely to	
Penicillin	An antibiotic that helps cure bacterial diseases by killing	Prevention Mosquito nets and mosquito repellents spread								
	bacteria inside the body	Knowledge:								
	,	Older drugs v			plants and microorganisms	F. de	l -	al france		
Painkillers	Treat symptoms of disease but do not kill pathogens	Drug Digitalis (heart drug)			-			ed from oves		
	ao noi kiii painogens	Aspirin					Wille			
		Penicillin			enic	illiur	n mould			
Problems	Greater use of antibiotics has led to the emergence of strains of bacteria that are resistant to antibiotics (superbugs)	Clinical trials use healthy volunteers and patients. • Very low doses of the drug are given at the start of the clinical trial. • If the drug is found to be safe, further clinical trials are carried out to find the start of the clinical trials are carried out to find the same patients are given a placebo.			he d	optir	mum dose for the	drug.		

Subject: Triple Science (Biology)

Topic: Infection and Response

Year Group: 10



Monoclonal Antibodies Identical copies of one type of antibody produced in laboratory A mouse is injected with pathogen. Lymphocytes produce 2 antibodies. Lymphocytes are removed from 3 the mouse and fused with rapidly dividing mouse tumour cells. The new cells are called hybridomas The hybridomas divide rapidly and release lots of antibodies

Knowledge: Monoclonal Antibodies can be used in a variety of ways

which are then collected.

1) Diagnosis	2) Detecting Pathogens
Pregnancy test –	Can detect very small
measure the level of	quantities of chemicals
hormones	in the blood

3) Detecting molecules	4) Treatment
Fluorescent dye can be attached so it can be seen inside cells or tissues	Bound to radioactive substance, toxic drug or chemical Cancer cells are targeted to normal body cells are unharmed

Knowledge : Detection and prevention of plant diseases

Detection	Identification
1-Stunted growth	Reference using
2- Spots on leaves	gardening manual or
3- Area of decay	website, laboratory test
4 -Growths	for pathogens, testing kit using
5- Malformed stems/leaves	monoclonal antibodies
6 - Discolouration	
7 - Presence of pests	

Plant Defences

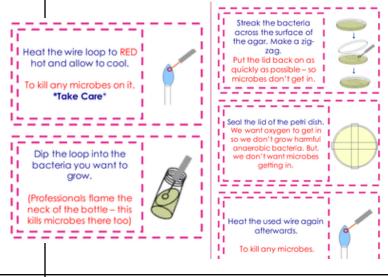
Physical	Mechanical		
Thick waxy layers,	Thorns, curling up		
cell walls stop	leaves to prevent		
pathogen entry	being eaten		

Chemical

Antibacterial and toxins made by the plant.

Culturing microorganisms (BIOLOGY ONLY)

- Bacteria multiply by simple cell division (binary fission), approx 1x per 40mins. Bacteria can be grown in nutrient broth solution or as colonies on an agar plate gel.
- Aseptic techniques to prepare an uncontaminated culture:



Required practical: Antibiotics and antiseptics can be used to inhibit the growth of bacteria and zones of inhibition can be calculated: Measure zone of inhibition with a ruler and use πr^2

HT ONLY: use standard form (see sheet 1)



Beckfoot School

1.	1. Process of creation					
1		Use a primary photograph of a structure.				
2		Abstract to create a pattern: Repeat Half drop Reflect Rotate				
3		Transfer the image onto polyester fabric using the sublimation printer and the heat press.				

2. Technical knowledge			
1	Repeat		A rigid motion of repeating a motif over and over along horizontal or vertical lines.
2	Half drop		A rigid motion where every other line of the motif is staggered.
3	Reflect	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	A rigid motion where the original motif is reflected across a line or axis.
4	Rotate	PdPd PdPd PdPd	A motion where the original motif is rotated around a single point.

3. Key Vocabulary			
1	Pattern	A repeating motif.	
2	Sublimation Printer	A printer that prints images onto paper, the images can be transferred using heat onto fabric/wood or metal.	
3	Heat Press	A piece of equipment that heats up and can be used to transfer images onto fabric/wood or metal.	
4	Helder Santos	A Portuguese graphic designer	
5	'Shift'	A repeating pattern.	
6	Primary Image	An image you have taken yourself. (This could be a primary photographs you have taken)	
7	High Resolution	An image that is not distorted or pixelated.	
8	Distorted	Something that is not clear to the eye.	
9	Pixelated	An image that appears to have lots of small dots or sections.	
10	Contact Sheet	35 photographs that are annotated to say which are good and why and which are not so good and why.	