September - October





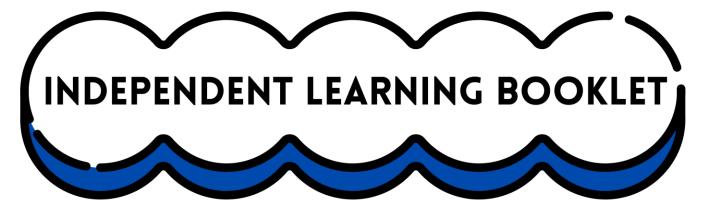
Self Quizzing

Flash Cards

Mind Maps

Brain Dumps

enjoylearnsucceed



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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.

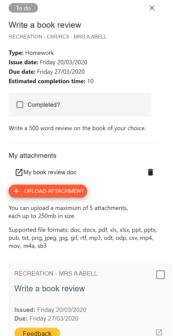


Homework attachment submissions

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.

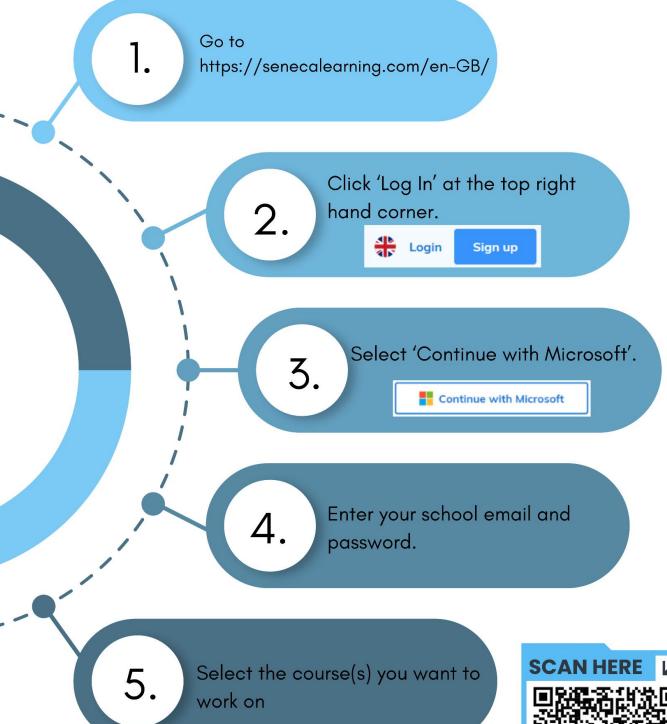
Submitted

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 9

Topic: Marketing Mix Decisions 2.2

Year Group: 11

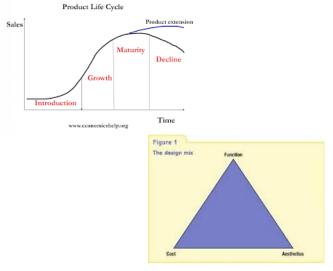
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Key Ideas	
Product	What the business is selling
Product Life Cycle	This is a concept about the number of sales a business makes over a period of time
Design Mix	This is a tool for improving the Product. It includes Aesthetics, Function and Cost
Price	The amount charged by a business for the sale of a product
Pricing Strategies	Competitive Penetration Psychological Price Skimming Cost Plus pricing Premium Predatory
Place	Where the product or service is sold Online V high street
Promotion	Making customers aware of the product Informing customers about the product Reminding customers about the product
Promotional Mix	A combination of promotional methods

E-commerce	Shopping online		
Place			
Key Idea	Where the business sells it products Online V High street		
Online	Using the Internet, social media or Apps		
Methods of Distribution	Retails E-tailers (Ecommerce) Wholesalers Warehouse		

Price					
Strategy	Choosing the right price to make most sales				
Strategies	Competitive Penetration Psychological Price Skimming	Cost Plus pricing Premium Predatory			
Influences on Strategy	Technology Competition Market Segment Product Life Cycle				

2.2.5 Using the marketing mix to make Business Decisions						
Key Idea How each element of the marketing mix can influence other elements						
EG - good Premium Pricing Strategy, placed in a Luxury Brand shop						
EG – bad Price Skimming with low quality production						
Key Idea	Using the marketing mix to build a competitive advantage					
Key Idea In integrated marketing mix can influence competitive advantage						



Promotion					
Promotion	Making customers aware of the product Informing customers about the product Reminding customers about the product				
Method of Promotion	Advertising Special Offers Branding Product Trials Sponsorship				
Branding Methods	Jingles Slogans Celebrity Endorsements	Logos Mascot			
Promotional Mix	A combination of the methods of promotional to increase the success of the promotion campaign				
Technology in Promotion	Targeted advertising online – ads/pop ups Viral Advertising vis Social Media E-Newsletters				

Product				
Product	What the business sells. Products are tangible goods.			
Design Mix	Used to innovate or improve the product			
Used to measuer sales over time. There are 5 stages: R&D Introduction Growth Maturity Decline				
Extension Strategy				
Methods of Extension Strategy	New packaging New flavours New size Rebrand Promotional campaign Reduce the price for a period of time			
USP	Unique Selling Point – give the business differentiation from their competitors			
Differentiation	The importance to a Business to making a product/service different from competitors			

Computer Science Top			Networks	Year Group: 11			BECKFOOT SCHOOL POPULATION OF THE POPULATION OF
Wir	ed and Wireless Networks	IP c	and MAC Addressing	Key Vocabulary			
1	- What is a network? - Types of network - Local Area Network [LAN] - Wide Area Network [WAN] - Personal Area Network [PAN] - Wired Vs Wireless Hardware Needed for a Network - Network Interface Card (NIC) - Switches - Router - Network Protocols: * Transmission Control Protocol / Internet Protocol [TCP/IP] * Hyper Text Transfer Protocol Secure [HTTPS] * File Transfer Protocol [FTP] * Internet Message Access Protocol [IMAP] * Simple Mail Transfer Protocol [SMTP] - The concept of layers - TCP/IP stack		1	Bandwidth	This is the amour that can be sen network		
	 Wireless Access Points Cables Fibre Optic Cable CAT5 CAT6 Ethernet Cable Coaxial Cables 	Тор	- Packet Switching - Describe network - Network Security	2	Latency	Is the delay of a one device and another.	
Sec 1	- The internet: The ultimate and bigger WAN in the world based around TCP/IP - Domain Name Server [DNS] - Web hosting - Benefits / Drawbacks	1 est	- Topologies - Star - Mesh - Bus - Ring TCP/IP model Protocols and services OSI model HTTP, FTTP, Application	3	MAC Address	The physical add embedded with device.	I
	- The cloud - Benefits / Drawbacks - Virtual networks - Benefits / Drawbacks		Application Telnet, NTP, DHCP, PING Session Transport TCP, UDP Transport Network IP, ARP, ICMP, ICMP Network Network Interface Ethernet Physical	4	TCP/IP	A set of rules that the connection computer system Internet.	of

Subject: Computer Science Topic: Cyber			Cyber	r Security		ar G	Froup: 11	BECKFOOT SCHOOL POPUL
Cyb	er Security and Threats		Prev	rention and Detection of Threats		Key	/ Vocabular	У
1	Cyber Security is the processes, practices and technologies designed to protect networks, computers, programs and data from attack, damage or unauthorized access. Cyber Security Threats: Social engineering techniques Malicious code Weak and default passwords Misconfigured access rights Removable media		- Understand and be able to explain the following security measures: - Antivirus Software - Antivirus Software - Firewall - Biometric measures (particular for mobile devices) - Malicious code - Weak and default passwords - Misconfigured access rights - Understand and be able to explain the following security measures: - Antivirus Software - Firewall - Biometric measures (particular for mobile devices) - CAPTCHA (or similar) - Using email confirmations to				Malware	Is an umbrella term used to refer to a variety of forms of hostile or intrusive software
Testi	- Unpatched and or outdat software ng Systems	ed	Soci	- Automatic software updates. al Engineering Techniques		2	Cyber Security	is protecting networks, computers, programs and data from attack, damage or unauthorized access.
1	- Penetration Testing is the process attempting to gain access to reso without knowledge		1	 Understand and be able to explain th following security measures: Antivirus Software Firewall Biometric measures 	е	3	Social Engineering	Using people as a weak point in a system
	 White Box Testing is to simulate a malicious insider who has knowled and possibly basic credentials for target system Black Box Testing is to simulate an external hacking or cyber warfare 	the		 (particularly for mobile device) Password systems CAPTCHA (or similar) Using email confirmations to confirm a user's identity Automatic software updates. 	5)	4	Virus	In computing terms it is something that maliciously affects computer software and code.



Principal (main) government objectives	Other government objective		
Ensuring price stability	Roducing inaquality		
Achieving economic growth	Reducing inequality		
Maintaining full employment	Managing environmental		
Balance of payments balance	change		

Objective	Example 1	Example 2
Economic Growth	by 1.6% in 2022.	Government investing in infrastructure projects like HS2 to boost growth.
Low Unemployment	Job support schemes like Kickstart during the COVID-19 pandemic.	UK unemployment fell to 3.8% in 2022.
Low and Stable Inflation	\smile	Raising interest rates to control high inflation.
Balanced Current Account		Using tariffs to protect domestic industries.

Conflict between objectives Key knowledge: when the government tries to achieve one

Key knowledge: when the government tries to achieve one objective it might come at the expense of the other. See examples below:

below:	
Economic growth and price stability	Pursuing higher economic growth could lead to inflation
payment	Higher economic growth could lead to increased demand for imports which worsens the balance of payments
J. G.D. III. y	If more people have jobs (full employment) then demand will be high which means higher inflation
, ,	Higher economic growth means some peoples incomes will rise whilst others will not resulting in income inequality
	Growing economies often lead to higher economic growth but this can come at the expense of increased pollution and environmental damage

GDP (goods and services oroduced in an economy over a period of time e.g. 12		
L i	The total value of goods and services produced in an economy over a period of time e.g. 12 months		
	The total GDP divided by the population		
GDP H	The GDP figure without caking inflation into account		
Real GDP	The GDP figure whilst caking into account offation		
	A growth in GDP over a period of time		

Keyword	Formula
Real GDP	GDP / (1+ Inflation rate as a decimal)
GDP per capita	Total GDP / Population

economic goods/services in one period of time compared to another

Benefits of economic growth	Costs of economic growth		
Rising consumer income	Increased inequality		
Better living standards	Demand pull inflation		
Higher consumer confidence	Growth may be unsustainable		
Higher tax revenue for the government	Imports may increase		
Higher employment/lower unemployment	Increased environmental damage		
Producers make higher profits	Workers may feel over worked leading to mental health issues increased		
1			

Less poverty			
What can the government do to promote economic growth?			
Supply side policies			
Government grants			
Reducing benefits			
Education and training			
Fiscal policy			
Monetary policy			

Monetary policy				
Concept	Example 1	Example 2		
Economic Growth	UK's real GDP increased by 2.3% in 2021.	India experienced 8% economic growth in 2022.		
GDP	Germany's GDP was €3.8 trillion in 2020.	USA's GDP reached \$25 trillion in 2023.		
Real GDP		If nominal GDP grows by 5% and inflation is 2%, real GDP growth is 3%.		
GDP per capita	Norway has a high GDP per capita due to a small population and strong economy.	China's GDP is large overall, but its GDP per capita is lower due to its large population.		

Higher employment/lower unemployment

Producers make higher profits

Less poverty

The value of the UK's exports of goods and services is **less than**

What is inflation?	A rise in the average price level over time normally represented as a $\%$		
Benefits of economic growth		Costs of economic growth	
Rising consumer inco	ome	Increased inequality	
Better living standard	ds	Demand pull inflation	
Higher consumer confidence		Growth may be unsustainable	
Higher tax revenue for the government		Imports may increase	

Causes of inflation

Increased environmental damage

mental health issues increased

Workers may feel over worked leading to

Demand pull inflation – when demand in the economy is high it tends to push prices up (normally in a boom)

Cost push inflation – increases in costs of production can push up average prices e.g. higher oil prices, weaker exchange rate, rising wages, etc...

Consequences of inflation

Interest rates likely to be higher as the Bank of England will increase them to fight inflation which means people with loans and mortgages will likely face higher repayments

Workers often demand higher wages when inflation is high, trade union activity, strikes tend to increase in the public sector

Inflation reduces real wages as people have to spend more money to buy the same things as before so they may cut spending in other non-essential areas.

Savers lose out because their money is worth less when inflation is rising

Business confidence will fall as they won't know what their costs will be in the future, so investments may be delayed or cancelled

Policies to fight inflation

Fiscal policy – taxes can be raised to discourage consumer spending

Monetary policy – Interest rates can be raised to discourage borrowing and spending

Supply side policies – Reduce power of trade unions, privatisation and deregulation which may encourage competition and reduce costs

What are the balance of

payments?

The BOP refers to a record of all financial transactions made between the UK and the rest of the world. Includes transactions made between consumers, producers and the government.

The BOP consists of the current account which records the exchange of goods.

What are the balance of payments deficit (current account)?

What are the

payments surplus

(current account)?

balance of

Imports

The BOP consists of the current account which records the exchange of goods and services between the UK and the rest of the world

The value of the UK's exports of goods and services is more than than the value of imported goods and services. i.e. Exports > Imports

the value of imported goods and services. i.e. Exports <

What is the balance of trade?

This part of the current account records the sales and purchase of physical goods between the UK and the rest of the world.

Component	Example 1	Example 2		
Trade in Goods	UK exports cars to Germany	UK imports smartphones from China		
Trade in Services	•	UK residents book holidays with foreign travel agents		
Income	UK investor receives dividends from US shares	Foreign company earns profits from UK operations		
Current Transfers	UK sends foreign aid to a developing country	EU budget contributions from the UK		
Deficit/Surplus	UK current account deficit due to high imports	Germany current account surplus from strong exports		

Causes of a BOP deficit or surplus

Status of the currency – stronger currency will make imports cheaper and exports dearer causing a current account deficit

Higher economic growth – leads to higher disposable income, UK citizens tend to buy more imports e.g. iPhone, German cars, French wine etc...

Competitiveness of the economy – if an economy is competitive e.g labour is productive, costs of production are lower, innovation is high then exports should rise

Inflation – High inflation compared to other countries will make UK's exports less competitive causing their demand to fall

Attractiveness to foreign investors – increased international investment could reduce a deficit as money flows into the UK economy

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GCS	Œ	EC	or	าด	m	CS

income.

Government objectives

2.2

BECKFOOT SCHOOL POP

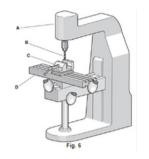
What is income inequality?	When there is an unequal distribution of income in a country. Some people's incomes might be much smaller than other peoples.			
Wealth inequality	When there is an unequal distribution of wealth in a country. Wealth includes things like savings, shares, property. Some people don't own very much whilst others have many assets			
What are the balance of payments surplus (current account)?	The value of the UK's exports of goods and services is more than than the value of imported goods and services. i.e. Exports > Imports			
What is the balance of trade?	This part of the current account records the sales and purchase of physical goods between the UK and the rest of the world.			
Causes of income inequality Causes of wealth inequality				
Age – Experience workers are usually older, meaning they get paid higher than younger workers Labour market – uses demand and supply to determine wages. If the job is in high demand then workers will earn higher wages. If there is a large supply of workers willing to do the job then wages will be low		Inheritance status – Some families have more assets to pass down to the next generation		
		Savings – people with a high income will save more, savings then earn interest and may lead to an increase		
Reliance on benefits – Families on benefits will receive a lower income than those that are not		in wealth over time		
Gender – Male and female workers might get paid different amounts, whether legally or illegally depending on the location.		Investments – people who have high incomes may		
Tax status – Regressive taxes will take a larger proportion of income from those on low incomes, than those on high incomes.		invest in assets like properties and shares thus increasing their wealth further		
Wealth – wealth status may influence income, people who already own a house won't need to pay rent or mortgages so they will have a higher disposable income.		Taxes – taxes on wealth tend to be lower than taxes on income		

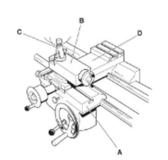
Consequen inequality	ices of income and wealth
Poverty	People that have low income and wealth may struggle to survive and are likely to be in poverty
Housing	Those on low incomes and those who have little wealth might struggle to obtain basic and necessary shelter
Education	People on lower incomes and with little wealth may struggle to afford transport and uniforms for their children resulting in poor educational outcomes which in turn leads to lower paid jobs
Health	People on lower incomes may struggle to afford healthcare or medications or health food. Leading to a lower quality of life and a lower life expectancy.
Social problems	All of the above could lead to a lower quality of life and social problems such as family breakdowns, truancy, crime and vandalism
Lower economic growth	If more people are less educated, less healthy and less happy then productivity in the economy could fall leading to a fall in supply and a general decline in economic growth

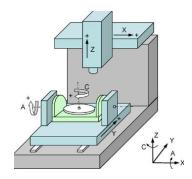


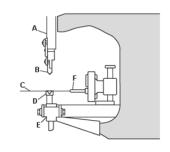
CAD, CAM & CNC **Computer Aided Design** The use of computers to aid with the design of CAD components and products. Software such as 2D Design and Autodesk Fusion is used. **Computer Aided Manufacture** The use of computers to aid with the manufacture of components and products. CAM Machines such as Laser Cutters, 3D Printers, CNC Lathes, CNC Routers, CNC Milling Machines and Water Jet Cutters are used **Computer Numerical Control** CNC Closely linked with CAM, Most CAM machines are CNC machines, the machines do not recognize

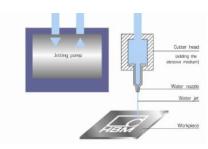
Advantages And Limitations Of Using CAM Machines					
Advantages		Limitations			
Enables very high accuracy levels in large-scale production		The software itself is expensive so initial costs are high			
Creates products that are identical to each other		Influence On Employment Opportunities			
Reduction In Defects		Machinery can be expensive and time consuming to repair			
Usually speeds up production of low-volume products		Users need to be trained how to use the software and machinery, which adds to costs			
Ability Of Automated Systems To Work In Environments That Would Be Hazardous To Operators					











CNC Milling Machine

CNC Lathe

CNC Multi Axis Machine

Press Brake Machine

Water Jet Cutter

With all of the machines above the axis a movement is essential. They range from 3 axis of movement up to many.

The exciting thing about CNC Machines and CAM is they are forever improving....

English Literature

An Inspector Calls

Year Group: 10



	Plot				
1	Act 1	The Birlings are celebrating Sheila and Gerald's engagement, Birling makes a speech to the men, the Inspector arrives, Birling confesses he fired Eva, Sheila confesses that she was responsible for Eva's dismissal from Milwards.			
2	Act 2	Gerald admits to 'rescuing' Eva and then leaves to clear his head, Mrs Birling admits to refusing Eva aid, Mrs Birling argues that the father should be brought to justice (Eric is the father), Eric enters the room.			
3	Act 3	Eric admits to drinking and forceful sex with Eva, Eric admits he stole £50 from Birling, the Inspector delivers a polemic speech to the Birlings and exits. Gerald returns, Sheila and Eric feel guilty, Mr and Mrs Birling refuse to take responsibility, the Birlings and Gerald convince themselves the inspection was a hoax. The telephone rings, the Birlings are informed that a young girl has committed suicide and an inspector is on his way.			
	Comtovit				

	Context					
1	Priestley	Fought in WW1. Socialist and member of the Labour Party. Concerned about social inequalities. Influential in developing the idea of the welfare state.				
2	Historical	Set in 1912 at the end of the Edwardian era. Titanic sank in 1912. WW1: 1914-1918. WW2: 1939-45. First performed 1945 in Soviet Union. First performed 1946 in Britain.				
3 Political Liberal party in power in 1912. Labour party in power in 1945. Formation of the 'Welfare State' 1945-1951. In 1912 only men over 21 with property could vote. 1903-1914 so the rise of the Suffragette movement. 1918 all men over 21 and women over 30 who met a property qualification could vote. 1928: All people over 21 could vote.		Formation of the 'Welfare State' 1945-1951. In 1912 only men over 21 with property could vote. 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 Social 1912: 10% of the population owned 90% of the wealth. No government assistance available. Charities were the only source of help for the poor.		government assistance available. Charities were the only source				
5	Literary	Literary Fits three possible genres: Morality play, Well-made-play, Crime thriller (see Bitesize)				

ျ	Lileiuly	thriller (see Bitesize)				
	Characters					
1	Inspecto	Authoritarian, omniscient, influential, socialist, moralist.				
2	Mr Birling	Haughty, greedy, ignorant, obstinate, egotistical.				
3	Mrs Birlin	Conceited, prejudiced, callous, obstinate, arrogant.				
4 Gerald		Charming, deceitful, manipulative, ingratiating, static.				
5 Sheila Envious, petulant, impressionable, rep		Envious, petulant, impressionable, repentant.				
6	6 Eric Reckless, dishonest, culpable, repentant.					
7 Eva Vulnerable, impoverished, exploite victim.		Vulnerable, impoverished, exploited, symbolic, victim.				

Themes				Themes
1 "We did her in all right" (Eric) "We are responsible for each off		"If I could help her now, I would." (Sheila) "We did her in all right" (Eric) "We are responsible for each other." Inspector Goole		
	2	Ť	Age	"The famous younger generation who know it all." (Birling) "Why, you hysterical young fool - get back - or I'll -" (Birling) "We often do on the young ones. They're more impressionable" (Inspector)
]	3	• 1 •1	Class	"As if a girl of that sort would ever refuse money!" (Mrs B) "If you don't come down sharply on some of these people, they'd soon be asking for the earth."(Birling) "He's a notorious womaniser as well as being one of the worst sots and rogues in Brumley." (Gerald)
	4	\P	Gender	"I hate those hard-eyed dough-faced women." (Gerald) "not only something to make 'em look prettier - but - well, a sort of sign or token of their self- respect." (Birling) "And you think young women ought to be protected against unpleasant and disturbing things? (Inspector)
	5		Socialism	"The money's not the important thing." (Eric) "We are members of one body." (Inspector) "Why shouldn't they try for higher wages? We try for the highest possible prices." (Eric) Key images: Beehive, chain
_	6	(Capitalism	"It's my duty to keep labour costs down." (Birling) "A man has to make his own way – has to look after himself" (Birling) "Probably a socialist or some sort of crank" (Birling) Key image: Titanic

╝	Dramatic Devices					
	1	Dramatic Irony				
	2	Sounds	Doorbell, telephone interrupt the Birlings comfort and complacency.			
-	3					
1	Exits that he is the father. Gerald's 'exit' in Act 2 prevents his		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.			
	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.					
	6 Stage Indicate character attitudes, development, relationships setting and mood.					

Key Vocabulary					
1	Socialism (Political theory)	Collective ownership of resources.			
2	Capitalist	Private ownership of resources.			
3	Didactic	Direct moral instruction.			
4	Polemic	Verbal or written attack.			
5	Patriarchal	Society controlled by men.			
6	Fourth wall	The space between the actors and the audience.			
8	Morality	Principles of right and wrong.			
9	Caricature	Exaggeration of characteristics usually to ridicule.			

English Literature

Power of

Humans

Effects of

Conflict

Reality of

Individual

Experiences

Conflict

Out Me History.

Power and Conflict Poetry

Powerful

Memory

9

Individuals

Political Power

Year Group: 10 & 11



1 'Ozymandias ' Percy Shelley		Narrator meets a traveller who tells him about a statue of Pharaoh Rameses II that has been destroyed by nature over time. Highlights the temporary nature of power.	9	'Remains' Simon Armitage	A from
William n		Narrator walks round London and describes the misery he sees brought about by the corrupt power of institutions (church, monarchy) over their subjects.	10	'Poppies' Jane Weir	A ic
3	'The Prelude' William Wordsworth	Narrator takes a boat out on the lake. Sees a mountain appear and is overwhelmed by the power of nature compared to humans.	11	'War	a In
4	'My Last Duchess' Robert	Duke shows portrait of his former wife who is now dead. The Duchess was flirtatious and displeased the Duke. We realise he probably had the Duchess killed.		Photographer' Carol Ann Duffy	e: o
	Browning	The Duke is planning his next marriage.	12	'Tissue' Imtiaz	Ti: Li:
5 'The Charge of the Light Brigade' Alfred Lord Tennyson 6 'Exposure' Wilfred Owen		War. An incorrect order meant the cavalry charged		Dharker 'The	re a Sr
		Winter on the front line in WW1. Nature personified as the main enemy and the men can only wait to die. Poem stresses insignificance of humans compared to nature.	13	Emigree' Carol Rumens	cl sh a tin
7	'Storm on the Island' Seamus Heaney	A community are waiting to be hit by a storm. The power of the storm creates feelings of fear and trepidation.	14	'Checking Out Me History' John Agard	In a to e:
8	'Bayonet Charge' Ted Hughes	Single soldier's experience of a charge towards enemy lines. The soldier fears for his life & the patriotic ideals that encouraged him to fight have gone.	15	'Kamikaze' Beatrice Garland	A w in a
		Compo	ariso	ns:	
1		Dzymandias, The Prelude, Exposure, Storm on the Island, ssue & Kamikaze.	6	Identity	N P

Ozymandias, London, My Last Duchess, Tissue, Checking

Charge, Remains, Poppies, War Photographer, Kamikaze.

London, The Prelude, Bayonet Charge, Remains, Poppies,

The Charge of the Light Brigade, Exposure, Bayonet

The Charge of the Light Brigade, Exposure, Bayonet

Charge, Remains, War Photographer.

War Photographer, The Emigree, Kamikaze.

	The Poems:					
	9	'Remains' Simon Armitage	A group of soldiers shoot a man who's running away from a bank raid. The narrator doesn't know if the man was armed or not and can't get the man's death off his mind. When back at home, the solider suffers PTSD.			
	10 'Poppies' Jane Weir		A mother describes her son leaving home to join the army. She fears for his safety and visits a familiar place that reminds her of him.			
	11	'War Photographer' Carol Ann Duffy	In his dark room, a war photographer develops pictures taken in different warzones. He contrasts his experiences to rural England and people who seem oblivious to war torn places.			
Imtiaz Literal uses of paper are also discussed, such or recording names in the Koran, as well as the form		Tissue is an extended metaphor for the fragility of life. Literal uses of paper are also discussed, such as recording names in the Koran, as well as the fact we are made from tissue, emphasising we are fragile.				
changed and perhaps was a scene of conflic						
1114 1						
	15	'Kamikaze' Beatrice Garland	A Japanese kamikaze pilot aborts his mission and when he returns home is shunned. His daughter imagines her father was reminded of his childhood and beauty of nature & life whilst on the mission.			
O	arisons:					
	6	Identity	My Last Duchess, The Charge of the Light Brigade, Poppies, Tissue, The Emigree, Kamikaze, Checking Out Me History.			
1	7	Place	London, The Prelude, The Emigree, Kamikaze.			

Ozymandias, My Last Duchess

Brigade

Storm on the Island, London, The Charge of the Light

The Prelude, My Last Duchess, Remains, Poppies,

War Photographer, The Emigree, Kamikaze.

	Key vc	cabulary.
1	Monologue	A monologue poem features a single speaker who is a fictional character
2	Caesura	Punctuation marks indicate a break in the line of poetry. Usually occurs in the middle of a line.
3	Enjambmen t	The continuation of a sentence without a pause beyond the end of a line/stanza
4	Free Verse	A poem without consistent metre patterns or rhyme scheme.
5	Rhyme	Correspondence of sound between words or ending of words.
6	Volta	In a sonnet, the volta is the turn of thought or argument.
7	Couplet	Pair of successive lines, typically rhyming and of the same length.
8	Sonnet	One stanza, 14-line poem written in iambic pentameter.
9	Refrain	A line or set of lines that repeatedly occurs in a poem.
10	Stanza	A group of lines in a poem.

Key Vocabulary:

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Unseen Poetry

Year Group: 10 & 11

BECKFOOT SCHOOL POPULATION OF THE POPULATION OF

		Assessment Criteria
1	AO1	Assessed on unseen poem analysis only. Read, understand and respond to texts. Use textual references, including quotations, to support and illustrate interpretations.
2	AO2	Assessed on unseen poem analysis and unseen poem comparison question. Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology where appropriate.

	Po	petic Language
1	Simile	A comparison made using the words "like" or "as."
2	Metaphor	A comparison – made directly or indirectly – without using "like" or "as."
3	Personification	Giving human characteristics to something which is not human.
4	Onomatopoeia	Words which attempt to imitate sounds.
5	Alliteration	A repetition of consonant sounds.
6	Assonance	A repetition of vowel sounds
7	Juxtaposition	Two things being placed close together for contrasting effect.
8	Semantic field	A set of words relating to the same topic. "Foul" and "Shot" would appear in the semantic field of sports.
9	Persona/ narrative voice	The voice/speaker of the poem who is different from the writer.
10	Oxymoron	A figure of speech in which two contradictory things are placed together in a way which makes peculiar sense. For example, "friendly fire."

_		Poetic Structures and Forms										
1	Stanza	A group of lines separated from others in a poem.										
2	Rhyme	The repetition of syllable sounds – usually at the ends of lines, but sometimes in the middle of a line (called internal rhyme).										
3	Couplet	A pair of rhyming lines which follow on from one another.										
4	Enjambment	The running over of a sentence from one line to the next without a piece of punctuation at the end of the line.										
5	Caesura	A stop or a pause in a line of poetry – usually caused by punctuation.										
6	Blank verse	Poetry written in non-rhyming, ten syllable lines.										
7	Dramatic monologue	A poem in which an imagined speaker address the reader.										
8	Lyric	An emotional, rhyming poem, most often describing the emotions caused by a specific event.										
9	Sonnet	A fourteen line poem, with variable rhyme scheme, usually on the topic of love for a person, object or situation.										
10	Free verse	Non-rhyming, non-rhythmical poetry which follows the rhythms of natural speech.										
How to approach an unseen poem												

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	How to approach an unseen poem											
1	What	What is the poem about? What happens? What is the topic/theme?										
2	How	How is this communicated? What language/structural techniques does the poet use to present this?										
3	Effect	What is the effect on the reader? What response do they have to the poem? What do they learn/understand?										

		enjoylearnsucceed
	Key \	/ocabulary
1	Poet	The author of the poem.
2	Speaker	The voice of the poem – this may or may not be the poet themselves.
3	Reader	Who the poem is written for. Some poems are written with a specific reader in mind.
4	Form	The type of poem, i.e. lyric or sonnet.
5	Structure	How the poem has been put together – couplet, rhyme scheme, stanzas etc.
6	Language	Techniques such as metaphor, personification etc. used by the poet to present the subject matter
7	Interpretation	A reader's understanding of and response to a poem.
8	Comparison	Comparing the methods two poets use to present their ideas in their poems.

Subject: French

Foundation Tier Knowledge Organiser

KS4

enjoylearnsucceed

Present Tense					Perfect Tense				Near Future Tense – I am going to				Conditional Tense – I would like to						
1	Je suis	l am		1	Je suis allé(e)	I went		1	Je vais être	k	ре		ſ	1	Je voudro	ais être	be		
2	J'ai	l have		2	Je suis parti(e)	l left		2	Je vais avoir	r	nave			2	Je voudro	ais avoir	have		
3	Je fais	l do/make	1	3	J'ai fait	I did/ma	de	3	Je vais aller (go	0				3	Je voudrais aller		go
4	Je vais	l go	1	4	J'ai aimé	l liked		4	4 Je vais faire d		ob	4		4	Je voudrais faire		do		
5	J'aime	l like	1	5	J'ai détesté	I hated		5	Je vais jouer	þ	olay		ľ	5	Je voudro	ais jouer	play		
6	Je déte	ste I hate	1				\blacksquare	6	Je vais	 v	watch		$\dashv \vdash$		Je voudro	ais regarder	watch		
7	Je joue	I play	1	6	J'ai joué	I played			regarder	L				7	Je voudro	ais manger	eat		
8	Je man	ge leat	1	7	J'ai mangé	l ate		7	Je vais manger	eat .		8		Je voudrais acheter		buy			
9	Je bois	l drink	1	8	J'ai acheté	Ibought		8	Je vais acheter	k	buy		9		Je voudrais travailler		work		
10) Je lis	Iread	1	9	J'ai trouvé	I found		9	Je vais travailler	\ \	work		10		Je voudrais voir				
1	J'achèt	e I buy	1	10	J'ai travaillé	I worked		10	Je vais voir	S	see						see		
12	2 Je trouv	e I find	$\exists I$	11	J'ai regardé	I watche	d	11	Je vais boire	c	drink		drink		11		Je voudrais boire		drink
13	3 Je travo	iille I work	$\exists $	12	J'ai vu	I saw		12	Je vais devenir	k	become				Je voudrais devenir		become		
14	Je pens	e I think	+	13	J'ai bu	I drank		13	Je vais voyager	t	travel			13	13 Je voudrais voyager tra		travel		
13	<u> </u>	it's	+	14	J'ai lu	Iread		14	ce sera	it	t will be			14	ce serait		it would be		
] [<u> </u>		<u> </u>			<u>L</u>								
		ll y a		Structures with infinitives											Imperfect 1	ense			
1	ll y a	There is/are		1	J'aime aller/fair	е	Ⅱlike	e going/doing			1	J'é	tc	ais		I was/I used	d to be		
2	II y avait	There was/were		2	Je n'aime pas d	aller/faire	I do	n't like	going/doing	\prod	2 J'c		'avais			I had/I used to have			
3	ll y aura	There will be	1	3	il faut aller/joue	r	you	have	to go/play	3 C			C'était		It was				
4	II y aurait	There would be	$\exists !$	4	on peut/doit all	er	you	can/must go			4 il y			vait		there was/were			

Subject: French

Foundation Tier Knowledge Organiser

KS4



	Sentence	e Start	ers		Connecti	ves		Intensi	fiers	Adjectives				
1	je pense que	I thi	nk that	1	et	and]	un peu	a bit	1	amusant	fun		
2	io orois guo	lba	elieve that	2	ΟU	or	2	assez	quite	2	intéressant	interestin		
2	je crois que	TDE	elleve mai	3	οù	where			<u> </u>			g		
3	à mon avis	in my opinion		on avis in my o		4	parce que	because	3	très	very	3	passionnan t	exciting
4	selon moi	in n	ny opinion	5	car	as	4	vraiment	really	4	utile	useful		
4	seion moi		ly opinion	6	mais	but	5	beaucoup	much/ a	5	beau	beautiful		
5	je dirais que	Iwo	ould say that	7	pourtant	however]		lot					
				8	aussi	also	6	trop	too	6	fantastique	fantastic		
	Signposting	Time F	rames		Frequenc	ov.		Exclama	tions!!!	7	incroyable	incredible		
1	l'année dernièr		last year	1	tous les jours	every day	1	Quel	What a	8	ennuyeux/ barbant	boring		
2	la semaine derr		last week	2	de temps en	from time to	1	dommag e!	shame!	9	fatigant	tiring		
3	hier	11010	yesterday		temps	time	2	Quel	What a	10	difficile	difficult		
4	normalement		normally	3	une fois par	once a week	plaisir!	pleasure!	11	cher	expensive			
5	d'habitude		usually		semaine	1	님							
6	ce soir		this evening	4	deux fois par mois	twice a month		Perfect Phrases For Any Essay						
7	la semaine		next week	5	nejamais	never	1 1	Hier je suis allé stade/au resta	au cinema/au aurant/au		terday I went to ema/stadium/re			
	prochaine			6	toujours	always	1	parc/au café c'était	/à la piscine et		afé/swimming p			
8	l'année procha	ine	next year	7	souvent	often		J'ai mangé ui	ne nizza/des	_	e a pizza/fries/a			
9	dans l'avenir		in the future	8	quelquefois	sometimes		frites/un hamb		har	nburger/some h -cream and it wo			
						iL.	et c'était							
	Fancy Phrases								oot/au tennis/au		ayed	/ a a lf a a l : h		
	1 je l'ai trouv			+	nd it great			rugby/au golf	er c erait	wa:	tball/tennis/rugb s	yygoli ana it		
	2 je me suis bien amusé(e)			I reall	y enjoyed myself		4	J'ai bu un cod		l dr	ank a coke/an c	orange juice		
	j'ai telleme	nt hât	е	I'm re	eally looking forward	d to it		d'orange et c	c'était	and it was				

Su	ubject:	French		Foun	dation Ti	er	Knowle	edg	e Orgar	nis€	er		K	S4		SC	KFOOT POP		
	Present	Tense - I		Perfect Tense	(past)- I	Imperfect Tense - I used to Future Tense					Tense – I								
1	Je suis	l am	1	Je suis allé(e)	I went	1	J'étais		be	1	Je serai		be	1	Je serais		be		
2	J'ai	I have	2	Je suis parti(e) left	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	Lliked	4	Je faisais		do	4	Je ferai		do	4	Je ferais		do		
5	Je bois	I drink	5	J'ai détesté	l hated	5	Je jouais		play	5	Je jouera	ıi	play	5	Je jouera	is	play		
6	Je lis	I read	6	J'ai joué	I played	6	Je regard	dais	watch	6	Je regard	derai	watch	6	Je regard	erais	watch		
7	Je vois	I see	7	J'ai mangé	Late	 	J'écoutai	is	listen	7	Je mang	erai	eat	7	Je mange	erais	eat		
8	J'achète	I buy		ļ		8	Je mange	eais	eat	8	J'achètei		buy	8	J'acheter	ais	buy		
9	Je trouve	I find	8	J'ai acheté	I bought								, , , , , , , , , , , , , , , , , , ,	9	Je travail	erais	work		
10	Je travaille	l work	9	J'ai trouvé	I found	9	Je buvais	S	drink	9	Je travail	lerai	work	10					
11	Je pense	I think	10	J'ai travaillé	l worked	10	J'achetai	is	buy	10	Je verrai		see				see		
12	Je crois	I believe	11	J'ai regardé	l watched	11	J'aimais		like	11	Je boirai	Je boirai		Je boirai drink		11 Je boirais			drink
13	Je dois	I have to	12	J'ai vu	Isaw	12	Je lisais		read	12	Je lirai		read	12	2 Je Iirais		read		
14	Je peux	I can	13	J'ai bu	l drank	13	Je travail	lais	work	13	Je partag	gerai	share	13	3 Je partag	erais	share		
15	Je veux	I want to	14	J'ai lu	Iread	14	Je détest	ais	hate	14	J'écoutei	rai	listen	14	J'écouter	ais	listen		
	Present Tens	se – We/they		Past Tense –	We/they		Imperfe	ct – We	they /		Future	- We /the	еу		Condition	al – We	/they		
1	On va	We go	1	On a vu	We saw	1	1 On était We use		used to be	1	On sera	We wi	ll be	1	On	We w	ould be		
2	On joue	We play	2	On a fait	We did	2				2	On aura	aura We will have		2	serait				
		vve play	$\ - \ $		We played		have		3	On ira We wi		e will go		On aurait	We w	ould have			
3	On peut	We/you can	3	On a joué	We played	3	On allait		used to go	4	Ils	They will be		3	On irait	W/\(\text{\alpha}\) \	ould go		
╟─┼			4	On est allés	We went	4	lls	They	y were	1	seront	''''			On hair	**E V	70010 g0		

lls étaient

avaient

They had

seront

auront

5 lls

5 lls

We left

On est

partis

5

On fait

lls sont

5

We do

They are

4

They will have

seraient

They would be

lls

7

souvent

quelquefois/ parfois

Foundation Tier Knowledge Organiser

KS4



	Sentence	e Star		Connectives						
1	je pense que	l th	nink that	1	1	mais	k	out		
2	je crois que	Ιb	elieve that	1	2	pourtant	r	nowever		
3	>			$\frac{1}{2}$	3	en revanche	r	nowever		
3	à mon avis/selon moi	Ini	my opinion		4	néanmoins	r	nevertheless	1	
5	je dirais que	Ιw	ould say that	1	5	certes		admittedly		
6	il me semble que	it s	eems to me that	1	6	aussi	C	osk		
7	d'un point de vue	fro	m a personal point of	+	7	donc	l t	herefore		
,	personnel	vie			8	d'ailleurs	k	pesides		
8	bien que je sache que	alt	hough I know that			Exclamo	tions	ons!!		
9	à cause du fait que	du	e to the fact that	1 Quel dommage!			What a shame!]	
10	Je considérais que	Iw	ould consider that		2	Quel plaisir!		What a	1	
11	il faut que je dise	Ιh	I have to say that					pleasure!		
	que					rames				
	Frequ	ency			1	l'année dernière	•	last year	٦	
1	tous les jours		every day]	2	la semaine dernière		last week	1	
2	de temps en temps		from time to time		3	hier		yesterday	1	
3	une fois par semaine	once a week		4	normalement		normally	\dashv		
4	deux fois par mois	twice a month		5	d'habitude		usually	\dashv		
5	nejamais		never	1	6	ce soir		this evening	1	
6	toujours		always	1	7	la semaine		next week	٦	

often

sometimes

	<u> </u>								
			Intensif	iers	•				
υt	1	υn	peu		a bit][
owever	2	ass	ez		quite				
owever	3	très	i		very				
evertheless	4	vra	iment		really				
dmittedly	5	bed	aucoup de		Lots of				
SO	6	trop	•		too][
erefore	7	tell	ement		SO	┇┝			
esides esides	8	ext	rêmement		extremely	<u></u> } }			
			Pronou	ns					
nat a shame!	1		n/ma/me	٨	Му				
iai a silaine.	2	Sor	n/sa/ses	Н	lis/her	$\ $			
What a pleasure!	3	├	tre/nos		Dur	╁┌			
piedsore:	4	├	ur/leurs		heir	╁┞			
ames		<u> </u>	<u>, </u>						
last year	5	Lui,	/Elle/eux	n	lim/her/the n				
last week					Fan	су			
yesterday		1	après avoi	ir m	angé				
normally		2	je l'ai trouv	vé ç	génial				
usually		3	je me suis	bie	n amusé(e)				
this evening		4	ça m'a vro	mic	ent plu				
next week		5	ça en valc	ait Ic	peine				
		6	je n'aurais	je n'aurais jamais pensé					
next year		7	j'ai tellement hâte						
in the future		8	le jeu en vaudra la chandelle						

prochaine

dans l'avenir

l'année prochaine

8

9

			Avoir/Etre	/Faire							
-		1	C'est	It is							
	:	2	Ce sera	It will be							
	;	3	Cétait	It was							
		4	Ce serait	It would be							
	,	5	ll y a	There is							
ł		6	II y aura	There will be							
l		7	II y avait	There was							
١	-	8	II y aurait	There would be							
$\frac{1}{1}$	9 II fait beau It's nice										
1	1	0	II fera froid	It will be cold							
l	1	1	II faisait chaud	It was hot							
	1	2	II ferait orageux	It would be stormy							
C	/ Pł	nras	es								
		а	fter having eaten								
	I found it great										
	I really enjoyed myself										
		I really enjoyed it									
		It	was worth it								
		۱۱	would never have	thought							
		l'	m really looking fo	orward to it							

it will be worth it

	ect: Geo		Topic: River L					Year Group		BECKFOOT CONTROL POR SCHOOL POR S
do	wnstream:	ver valleys changes as 1 			he shape of rive nstream: Fluvial	r valleys changes as rivers flow Processes		B. Distinctive flu	different physical	
The lon valley	Long profile	Shows the height and graits source to mouth. Offer diagram:	adient of a river from	1		Hydraulic Action: This is the force of the water in the channel hitting against the bed and banks, gradually wears them away – particularly occurs at high-velocity flows. Abrasion: This is the scraping away of the river bed and banks by stones picked up and carried in the rivers flow. Like a sandpaper effect. Attrition: Rocks bang against each other,	1	Characteristics and formation of landforms resulting from erosion.	Interlocking spurs, waterfalls 1 2 1. The river uses its load to cut into the bedrock (vertical erosion).	2. Material loosened by weathering is washed into the river increasing its erosive power.
2	Upper course	The upper section of a riv Includes the source. Usua Iand where rainfall is pler process is erosion as the down' to sea level (also I Most erosional landforms as waterfalls and V shape steep gradient and a na	ully located on high tiful. Dominant iver tries to 'cut known as base level). are found here, such ed valleys. Has a		Erosion	gradually breaking down (rocks become smaller, smoother and less angular as attrition occurs) Solution: The dissolving of minerals in the rocks of the bed and banks which are carried away in solution in the water. Rocks such as limestone are easily dissolved.			Soft Less Resistant Rock (this is easily croded)	Gradually the waterfall retreats upstream leaving a steep-sided GORGE vater falls the lip, more of the rick doded by correction to the water falls and the water the lip more of the rick of the lip more of t
3	Middle course	The middle section of the Found on lower land. Pro erosion <u>and</u> deposition a Landforms such as mean lakes are commonly four channel and valley are v gradient is more modera	cesses of both re active here. ders and ox-bow ad. Here the river rider and the			Vertical erosion: Occurs mostly in the upper course where the river is cutting down to base/sea level. Deepens the river valley and creates a 'V' shape. Lateral erosion: Occurs mainly in the middle and lower course. Here the river cuts	2	Characteristics	Eventually the overhang collapses due to lack of support A plunge pool is formed by water hitting soft rock below rocks rubbing against the be	w and deepened by d (corrasion)
4	Lower course	The final stage in the long towards the mouth of the flat land. Deposition is the creating landforms such and estuaries. As the rive gradient becomes gentle valley much wider.	p profile. Located e river on low-lying, e dominant process as levees, floodplains r reaches its end the	2		sideways widening the channel and the valley. Traction: Large particles rolled along the river bed by the force of the water. Saltation: A bouncing or hopping motion by pebbles too heavy to be suspended.		and formation of landforms resulting from erosion and deposition.	Step 1 Erosion of outer bank forms river cliff. Deposition inner bank forms slip off slope. Step 3 Erosion breaks through neck, so river takes the fastest route, redirecting flow	Further hydraulic action and abrasion of outer banks, neck gets smaller. Step 4 Evaporation and deposition cuts off main channel leaving an oxbow lake.
5		Shows the shape of the rivalley from one side (bar changes drastically with downstream. Again, ofte diagram:	nk) to the other. This distance		Transportation	Suspension: Particles suspended within the water. Solution: Chemicals dissolved in the water.	3	Characteristics and formation of landforms	Levees, flood (a) Before flood plains and estuaries.	
	Cross profile		Lower	3	Deposition	Involves the dropping of sediment that has been transported by the river. River sediment is deposited in low flow conditions when the river loses energy and the velocity is so slow that the river can no longer carry the sediment load. Usually happens on the inside bend of a meander, at the estuary and mouth where tidal		resulting from deposition.	(b) During flood Thickest and cos sediments depos at channel edges	ited deposited over outer
6	Fluvial processes	Processes of erosion, trandeposition that occur with	hin a river system.			influences slow the river flow or anywhere along the river's course at times of low discharge.			(c) After many fi	The state of the s

discharge.

deposition that occur within a river system.
They shape the river and its valley.

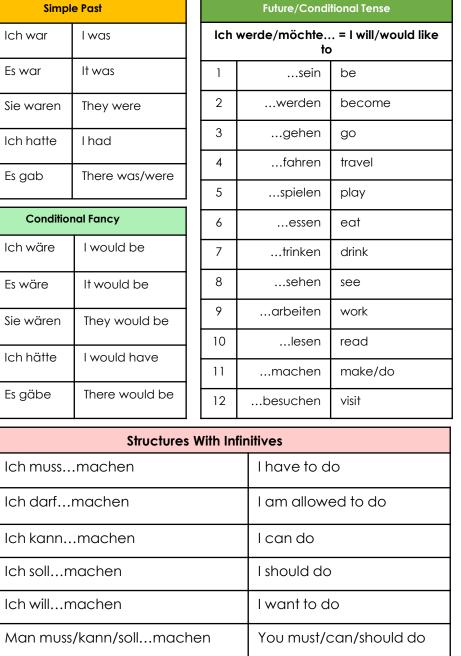
Subje	ect: Geogra	iphy	Topic: River	Lanc	dscapes in	the UK	Υe	ar Group: 1	BECKFOOT SCHOOL enjoylearnsucceed			
В. В		al landforms result fr esses: Example: Rive		С. [ement strategies can be used to protect river upes from the effects of flooding.		C. Different management strategies can be used to protec river landscapes from the effects of flooding.				
2	An example of a river valley in the UK to identify its major landforms or erosion and deposition.	Upper Course Closs Fold Polet	Pennines to the	1	How physical and human factors affect the flood risk:	Physical: Prolong & heavy rainfall Long periods of rain causes soil to become saturated leading to runoff and increased flood risk. Physical: Geology Impermeable rocks cause surface runoff to increase river discharge. Permeable rocks allow water to pass through them and porous rocks absorb/hold water so reduce river discharge. Physical: Relief Steep-sided valleys channel water to flow quickly into rivers thus increasing discharge and flood risk.	1	The costs and benefits of the following management strategies: Soft Engineering	Floodplain zoning-restrict locations. Place low risk fields in high risk areas. River restoration – returnel. River Quaggy. World processes. Flood warnings and pre Agency warns those in allows people/councils events. Planting trees-Tree plantication catchment increases in absorption of water by speed/amount of runof	uses such as sports n river to original course k to understand natural paration-Environment nigh risk areas which etc. to prepare for flood ting within the terception and trees. This reduces the		
2	Upper course	North Sea (Tees estuc	at Tees Head,		Precipitation, geology, relief and land use	Human: Land Use Tarmac and concrete are impermeable. This prevents infiltration & causes surface runoff. Deforestation reduces interception and increases soil erosion. This causes surface runoff and increases flood risk.	2	The costs and benefits of the following management strategies: Hard Engineering	Dams and reservoirs — reallow water to be held in high flow. Straightening Channel — remove flood water; condownstream. Embankments (Artificial river banks so flood water) flood relief channel — responses an urban area	coack during times of increases velocity to increate flooding issues Levees) – heightens er is contained. inan made channel to		
		Features include V-sh interlocking spurs, rap Highforce Waterfall-la	aped valley, oids and waterfalls.						agement strategies car scapes from the effect			
		Forest-in-Teesdale-dro consists of harder Wh with underlying softer impressive 700m gorg front of the falls.	ops 22m and instone cap rock limestone. An	2		Discharge (cumecs) 60 Peak discharge 50 Rising limb Falling limb	1	An example of a flood management scheme in the UK to show: Why the scheme was required.	Thames in south-east Er of the Thames flood plo flooding. It contains the Windsor, as well as Etor public school. Given th	ain and prone to		
3	Middle course	Here the gradient be moderate and the vo Features include med bow lakes created by and deposition. The r Yarm encloses the to	alley widens, anders and ox- y lateral erosion meander near wn.		The use of Hydrographs to show the relationship between precipitation and discharge	Peak rainfall Base flow (normal flow) 20 50- 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	2	Management Strategy - 2002	1	gest artificial channel vide). The channel was natural river, so it has reed beds and a nature has been creased in the large dams) along its er effectively diverts ames and prevents the		
4	23.70. 300/30	such as floodplains & Darlington, Mudflats I deposition at the rive areas of the estuary of SSSI's but there is also at the mouth of the ri	levees near form due to r's estuary. Some are designated plenty of industry			Day 1 Time (hours and days) A Figure 11.42 A typical flashy response hydrograph	3	Social, Economic and Environmental Issues	Social -ls it ethical to pr at the expense of other Economic – cost £10 m costs. Homes and busin downstream. Environmental – Floodir	otect some properties rs? nillion, continual repair nesses flooded ng downstream. Natural Algae collecting behind		

Subject: Geography	Topic: River Landscapes in the	Year C	Group: 11	BECKFOOT SCHOOL POPULATION OF THE POPULATION OF				
Abrasion Rocks carried along by the river wear down the river bed and banks.	9) Flood plain The relatively flat area forming the valley floor on either side of a river channel, which is sometimes flooded.	17) Hydraulic action The force of the rive against the banks can cause air to be to in cracks and crevices. The pressure we the banks and gradually wears it away.	25) Ox-bow lake An arc-shaped lake which had been cut off from a meandering river.					
2) Attrition Rocks being carried by the river smash together and break into smaller, smoother and rounder particles.	10) Flood plain zoning This attempts to organise the flood defences in such a way that land that is near the river and often floods is not built on. This could be used for pastoral farming, playing fields etc. The areas that rarely get flooded would therefore be used for houses, transport and	18) Hydrograph A graph which shows the discharge of a river, related to rainfall, a period of time.		26) Precipitation Moisture fallin atmosphere - as rain, hail, slee 27) Saltation Particles bouncing bed.	f or snow.			
3) Cross profile The side to side cross-section of a river channel and/or valley	industry . 11) Flood relief channels Building new	19) Interlocking spurs A series of ridges projecting out on alternate sides of a vocand around which a river winds its cours		28) Soft engineering Involves the use of the natural environment surrounding a river, usi schemes that work with the river's natural processes. Soft engineering is usually much				
4) Dam and reservoir A barrier (made on earth, concrete or stone) built across a valley to interrupt river flow and create a man-made lake (reservoir) which stores water and controls the	artificial channels which are used when a river is close to maximum discharge. They take the pressure off the main channels when floods are likely, therefore reducing flood risk.	20) Landscape An extensive area of lan regarded as being visually and physical distinct.		cheaper and offers a more sus as it does not interfere directly flow.	tainable option			
5) Discharge The quantity of water that passes a given point on a stream or river-bank within a given period of time.	12) Flood risk The predicted frequency of floods in an area.	21) Lateral erosion Sideways erosion by on the outside of a meander channel. It eventually leads to the widening of the and contributes to the formation of the plain.	t valley	29) Solution Soluble particles a the river.	re dissolved into			
6) Embankments Raised banks constructed along the river; they effectively make the river deeper so it	13) Flood warning Providing reliable advance information about possible flooding. Flood warning systems give people time to remove possessions and evacuate areas.	22) Levees Embankment of sediment all bank of a river. It may be formed nature regular flooding or be built up by people protect the area against flooding.	ally by	30) (Channel) straightening Re meanders from a river to make straighter. Straightening the riv channelising) allows it to carry quickly downstream, so it does is less likely to flood	e the river er (also called more water			
can hold more water. They are expensive and do not look natural but they do protect the land around them.	14) Fluvial processes Processes relating to erosion, transport and deposition by a river.	23) Long profile The gradient of a river, for source to its mouth.	rom its	31) Suspension Fine solid mate water while the water is movin				
7) Estuary The tidal mouth of a river where it meets the sea; wide banks of deposited mud are exposed at low	15) Gorge A narrow, steep sided valley, often formed as a waterfall retreats	24) Meander A pronounced bend in a ri	iver	32) Traction The rolling of bould along the river bed. 33) Vertical erosion Downward				
8) Flood Occurs when river discharge exceeds river channel capacity and water spills out of the channel onto the floodplain and other areas.	upstream. 16) Hard engineering Involves the building of entirely artificial structures using various materials such as rock, concrete and steel to reduce, disrupt or stop the impact of river processes.	25) Ox-bow lake An arc-shaped lake whas been cut off from a meandering rive 26) Precipitation Moisture falling from the atmosphere - as rain, hail, sleet or snow.	er.	bed. 34) Waterfall Sudden descent of stream over a vertical or very stream of softer rock after flowing of more resistant material.	of a river or teep slope in its ever meets a			

Sul	bject: Ger	man			Foundation	n Tier I	Knowled	ge	0	rganiser
	Present To	ense	l		Perfect Ter	ise				Simple
1	Ich bin	l am		1	Ich bin gegangen	Iwe	ent	1		Ich war
2	Ich habe	l have		2	Ich bin gefahren	I tra	velled	2		Es war
3	Ich mache	l do/make		3	Ich bin geflogen	I flev	W	3		Sie waren
4	Ich gehe	l go		4	Ich bin geblieben	l sta	yed	4		Ich hatte
5	Ich fahre	I travel		5	Ich habe gemacht	l dic	d/made	5		Es gab
6	Ich mag	l like		6	Ich habe gespielt	I plc	ayed	L		
7	Ich hasse	l hate		7	Ich habe gegessen	l ate	e			Condition
8	Ich spiele	l play	_	8	Ich habe getrunker	l dro	ank	1		Ich wäre
9	Ich esse	l eat		9	Ich habe gekauft	lbo	ught	2		Es wäre
10	Ich trinke	I drink		10	Ich habe gearbeite	t Iwo	orked	3		Sie wären
11	Ich lese	Iread		11	Ich habe gesehen	Iwo	ıtched	4		Ich hätte
12	Ich sehe	l see		12	Ich habe gelesen	Trec	bc	5		Es gäbe
13	Ich kaufe	l buy		13	Ich habe gefunden	I fou	ınd			
14	Ich finde	I find		14	Ich habe besucht	l visi	ted			
15	Ich	l work			Using Geb	nen .		1		Ich muss
1 4	arbeite Ich denke	I think	$\frac{1}{1}$	1	Es gibt	There	is/are	2		Ich darfr
16			1		-		, 3 0	3		Ich kann
	Ich muss	I have to	-	2	Es gab	There was/w	/ere	4		Ich sollm
18	Ich kann	Ican	-	3	Es wirdgeben	There	will be	5		Ich willm
19	Ich will	I want to		4	Es	There	would	-		
20	Es ist	it's		'	würdegeben	be		6		Man muss,

	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	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									
		Structur									
1	Ich muss	.machen									
2	Ich darfmachen										
3	Ich kannmachen										
4	Ich sollmachen										

Ich will...machen



KS4

BECKFOOT POP

enjoylearnsucceed

Subject: German

Essen war sehr lecker und es hat sich wirklich

gelohnt. Wahnsinn!

Foundation Tier Knowledge Organiser

KS4

BECKFOOT SCHOOL POPULATION OF THE POPULATION OF

enjoy myself I love pizza.

														enjoyleamsacceea			
	Sente	nce Si	tarters				Со	nnecti	ves			Intensif	iers		Adjectives		
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	
	Meliles EldCilleris		птту оршио	11		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	
						·			or		5	echt	genuinely	5	schön	beautiful	
4	Ich denke, dass		I think that			5	jedoch	however		r	6	ZU	too	6			
5	Ich würde sagen, a	dass	I would say t	hat		6	außerde	m	furtherm	ore		20	100		toll	great	
						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				Frequen	су				Exclamat	ions!!!	9	anstrengen d	tiring	
1	letztes Jahr	last	year		iede	n Tag	-	ever	y day		1	Wie	What a	10	schwierig	difficult	
2	letzte Woche	last v	week	<u> </u>	ab und zu							Schade!	shame!	11	teuer	expensive	
3	gestern	yeste	erday	2	ab u	ind zu		from time to tim		ne ———	2	Wahnsinn!	Wow!	12		· ·	
4	normalerweise	norn	nally	3	einm	nal pro Woche		once a week			L		_		billig	cheap	
5	gewöhnlich	USUC	ılly	4	zweimal pro Monat			twice a month						Phrase	? \$		
6	heute Abend	this e	evening	5	nie	nie			never			Es hat eine Menge Spaß gema Es hat sich wirklich gelohnt			acht It was loads of fun		
7	nächste Woche	next	week		inana	-						Es hat sich wirk	dich gelohnt		t		
8	nächstes Jahr	next	year		imm	er		alwc	always		3	Das hat mir gefallen		l liked it			
9	in der Zukunft	in th	e future	7	oft			ofte	n		4	Ich freue mich schon darauf			am already lookir	ng forward to it	
10	am Wochenende	at th	ie weekend	8	man	ichma	I	some	etimes		5	Ich werde mich amüsieren			will enjoy myself		
									Fantastic Future	Exan	nples						
1	Kino/Café/Restaurant/Stadion/Museum					Last weekend I went to the cinema/café/restaurant/stadium/museum and it was loads of fun.			1	Freun		e ich mit meinen n fahren und ich rauf.	Next year I will travel with my				
2	Ich habe Hähncher gegessen und ich h	abe C	Cola getrunken	. Das	and	I ate chicken, chips and salad and I drank cola. The food was				2		ch möchte ins Café gehen und ich nöchte Pizza essen. Ich werde mich would like to eat					

amüsieren, weil ich Pizza liebe.

very tasty and it was really worth

it. Wow!

Su	bject: G	erman		Higher Tie	r Knowled	lg	e O	rganise	er
	Present	Tense		Perfect Tense				Simp	le P
1	Ich bin	Iam	1	Ich bin gegangen	Iwent		1	ich war	1,
2	Ich habe	Ihave	2	Ich bin gefahren	I travelled		2	es war	it
3	Ich mache	I do/make	3	Ich bin geflogen	I flew		3	sie waren	tł
4	Ich gehe	Igo	4	Ich bin geblieben	l stayed		4	ich hatte	1
5	Ich fahre	I travel	5	Ich habe gemacht	I did/made		5	es gab	th
6	Ich mag	l like	6	Ich habe gespielt	I played				
7	Ich hasse	I hate	7	Ich habe gegessen	l ate			Conditio	nal
8	1		8	Ich habe getrunken	l drank		1	ich wäre	1,
	Ich spiele	I play	9	Ich habe gekauft	Ibought		2	es wäre	it
9	Ich esse	I eat	10	Ich habe gearbeitet	I worked		3	sie wären	th
10	Ich trinke	I drink	11	Ich habe gesehen	I watched				_
11	Ich lese	Iread	12	Ich habe gelesen	Iread		4	ich hätte	'
12	Ich sehe	I see	13	Ich habe gefunden	I found		5	es gäbe	th
13	Ich kaufe	I buy	14	ich habe besucht	Lyisited	- - -		<u> </u>	
14	Ich arbeite	l work	14			}	1	ich muss.	n
	Present tense of	other subjects	1 1	Past tense other sull Er/sie hatgespielt	He/she	┥┟	2	ich darf	. m
1	Er/sie fährt	He/she travels		Li/sie flutgespieli	played				
2	Wir fahren Er/sie sieht	We travel He/she sees	2	Sie/er ist gegangen	She/he went	$\left \ \right $	3	ich kann.	r
	Wir sehen	We see			NATA PARAMANA	$\left \cdot \right $	4	ich soll	mc
3	Er/sie isst Sie essen	He/she eats They eat	3	Wir habengemacht	We did/made		5	ich will	mc

4

Sie sind...gefahren

They travelled

6

Er/sie liest

Sie lesen

They read

He/she reads

	Simpl	le Past			Future/Conditio	nal Tense			
1	ich war	l was		=	ich werde/mö I will/would like	-			
2	es war	it was			Er/sie wird = he				
3	sie waren	they were			Wir werden =	•			
4	ich hatte	I had		1	sein	be			
				2	werden	become			
5	es gab	there was/were		3	gehen	go			
	Conditio	nal Fancy		4	fahren	travel			
1	ich wäre	I would be		5	spielen	play			
2	es wäre	it would be		6	essen	eat			
3	sie wären	they would be		7	trinken	drink			
	sie waien	mey woold be		8	sehen	see			
4	ich hätte	I would have		9	arbeiten	work			
5	es gäbe	there would be		10	lesen	read			
		Structure	s W	/ith Inf	initives				
1	ich muss.	machen			I have to a	I have to do			
2	ich darf	. machen			I am allowed	d to do			
3	ich kann.	machen			I can do				
4	ich soll	machen		I should do)				
5	ich will	machen			do				

man muss/kann/soll... machen

BECKFOOT P

enjoylearnsucceed

you must/can/should... do

KS4

ubject: German	
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in der Zukunft

in the future

manchmal

Higher Tier Knowledge Organiser

KS4

it will definitely be lots of fun

BECKFOOT POP enjoylearnsucceed

	Sente	ence St	arters					Connectives					Intensifie	rs	Adjectives				
1	Meiner Meinung n	iach	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		3	sehr	very	3	spannend	exciting		
	Ganzen					╽┝	4	sondern	(neg)	but		4	wirklich	really	4	nützlich	useful		
4	Auf der einen Seit	е	On the one	hanc	and .		5	jedoch		however		5	echt	genuinely	5	schön	beautiful		
5	Aber auf der ande	eren	But on the o	ther I	hand	-					_	6	ZU	too	 				
	Seite	_	14 4		1	┨	6	deshalb		therefore		7	so	so	6	toll	great		
6	Es scheint mir, das	S	It seems to n	ne in	iat		7	trotzdem	1	nevertheles		8	ganz	totally	7	unglaublich	incredible		
7	Ich denke, dass		I think that			┞	8	außerde	m	furthermore	+				8	langweilig	boring		
8	Ich würde sagen,	dass	I would say t	that					111				Exclamatio	ns!!!	9	anstrengend	tiring		
9	Obwohl ich weiß,	dass	Although I ki	now	that	╽┝	9	weil/da		because		1	Wie Schade!	What a shame!	10	schwierig	difficult		
10	Ich glaube, dass		I believe tha	n+		╽	10	dass		that			schade:	sname:	11	+			
10	_						11	obwohl		although		2	Wahnsinn!	Wow!		teuer	expensive		
11	Ich muss sagen, d	ass	I have to say	y that	that		12	wenn		if/when					12	billig	cheap		
	Signposting Tim	ne Fran	nes					Frequen	:y Fan					Fancy	cy Phrases				
1	letztes Jahr	last y	/ear	1	jed	len	Tag		every day			1	es hat eine Me gemacht	nge Spaß	if				
2	letzte Woche		week	2	2 ab	un	ıd zu		from t	ime to time		2	ich habe mich amüsiert	wirklich	ı	I really enjoyed myself			
3	gestern	yeste	erday	3	ein	mc	al pro	Woche	once	a week	$\ \cdot\ $	3	es hat sich wirk	dich gelohnt	it	was really worth	it		
4	normalerweise	norn	nally	4	l zwe	eim	nal pr	o Monat	twice	a month	┪┠	4	das hat mir ge			 liked it			
5	gewöhnlich	usua	lly		_			ne.ve-		┨┞	5	ich hätte nie g			would have neve	r thought			
6	heute Abend	this e	evening		5 nie		never		┧├	6	je (heißer), des			ne (hotter) the be					
7	nächste Woche	next	week	6	imr	ner	r		alway	S	$\ \cdot\ $	7							
8	nächstes Jahr	next	year	7	7 off			often			/	ich freue mich	scrion dardu	f I am already looking forward to it					

sometimes

8

machen

es wird bestimmt viel Spaß

		ject: ohics	-		ulture Conve i Ins & Outcom			BECKFOOT SCHOOL POPULATION OF THE POPULATION OF		
	Knowledge	Group 1 Sketc	hing (Design Ideas)	K	nowledge Gro	oup 3 Tools & Techniques	s		Key V	ocabulary
1	Sketch	notes dov	rawing in which a designer vn his preliminary ideas for at will eventually be	1	Hue	The name of a colour.		1	VIP Pass	A higher-priced ticket that offers attendees
			rith greater precision and	2	Saturation	The intensity or purity of a hu				something extra and exclusive.
2	Symbolism		f symbols to represent ideas s.	3	Layer styles	Layer effects and blending options applied to a layer.		2	Poster	A poster is a large sheet that is placed either on a public
3	Colour sche (linked to the	eme) artistic an	e of colours used in various d design contexts.	4	Overlap	Extend over so as to cover partly.				space to promote something or on a wall as decoration.
4	Typography	to make v	echnique of arranging type vritten language legible, and appealing when	5	Underlap	To extend partly under.		3	Rule of thirds	A guideline that places the subject in
		displayed		6	Filters	Digital effects used to modi images and selections to	ify			the left or right third of a composition, leaving
5	Target Audie	product s	rticular group at which a uct such as a film or rtisement is aimed.			create effects, repair image and move pixels.	es,			the other two thirds more open. It divides a composition into nine
6	Composition	and, more which all i	n to a complete work of art e specifically, to the way in ts elements work together te an overall effect.	7	Liquify (tool/filter)	Used for retouching and artistic effects. With it you copush, pull, rotate, reflect,				equal parts, split by two equally spaced horizontal and vertical lines.
	Knowledge	Group 2 Design	ın Ideas Refinement			pucker, and bloat the pixels an image.	SOI	4	Compositional flow	Flow is about movement and
1	Annotaation s		y way of comment or	8	Blend modes	Eight blend mode groups us to determine how two layer are blended with each othe	rs			direction, and leading the eye from one part of a composition to
2	Tone	Smooth shading from dark to ligh	which fades gradually t.			These are normal, darken, lighten, contrast, inversion,				another in the direction you want it to move.
3	Form	Curved shading object using ton	around the outline of an e.			cancelation and compone	ent.	5	Balanced	A compositional
4	Colour Blending		pplying gradual tone using d layering a similar (lighter)	9	Brush tool	Used for drawing lines and shapes in any colour on a			composition	choice in art in which the work feels balanced. Different compositional aspects
5	Complem entary colours		e opposite on the colour reate the strongest contrast			layer in your document usin strokes. Can be customisab				carry "weight," for example the placement of objects.

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

Year 10



1.1 Types of Care	
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. 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.
Social care settings	Residential home, Retirement home, social services department, support group, community centre, day centre, food bank, homeless shelter.
Social Care Examples	 An individual staying at a homeless shelter. Dementia resident cannot care for themselves in their own home, now living in a residential care home. A family struggling to cope with the demands of caring for their physically disabled child.
1.2 The Rights of servic	e users
Choice	Choosing which activities they participate in

1.2 The Rights of service users								
Choice	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 (verbal and written) Service providers cannot discuss service users care with their family and friends not directly involved in the Conversations should be in a private room (cannot overhear) Keep personal information secure in a locked cupboard or filing cabinet. Computers should be password Providers would need a log in with a secure email and password to access data and wear a security bar 								
Consultation	 Service users should be involved in all decisions that are made about them. 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. 							
Equal and Fair treatment	 Every service user can access health and social care services, regardless of who they are (not unfairly because of their colour, age, gender, money available or ability to care for themselves. 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 Harm	 Includes health and safety, safe working practices and knowledge of what to do if you have concerns. 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 checked regularly, procedures not followed)							
Abuse	Can occur deliberately or accidentally (racism, lack of training, sexual orientation) it could be cruel comments, physical action or isolation.							

Health and Social Care

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

Year 11



		enjoylearnsucc							
Key Terms									
Consultation	Service	providers share information with service users and vice versa, so care decisions can be made together.							
Physical Hard	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.							
Emotional Harm	Includes	shouting or swearing at a service user, insulting them or ignoring them completely.							
Empowerment	Relates	to the control or 'power' a service user feels they have over their life							
Holistic approach	Conside	r the emotional and psychological needs as well as the physical health							
1.3 The benefits to s	ervice use	ers' health and wellbeing when their rights are maintained							
Empowerment - Contr	ol or 'powe	er' will support the resident to feel stronger and mare confident therefore more independent and self-reliant.							
Independence and self-reliance		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	E	impower service users by ensuring their rights are met giving them a sense of control e.g., Am I okay to listen to your chest?							
Choice	I	avolved 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.							
High self-esteem - if rig	ghts are mo	aintained they will feel valued and respected increasing their self-esteem							
Feeling valued	ī	he right of choice will help service users feel valued and worthy of care. More likely to ask for additional support in the future.							
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 conesty and trust. Health and wellbeing will improve because of the high standards of care. E.g. correct manual handling techniques used.							
Positive mental Health		his 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. ake a holistic approach considering how the person feels about their care.							
Service users' needs a	re not met	- care should be specific and well planned to the service user.							
Appropriate care or treat	ment	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 Settings should be accessible e.g. lifts, wide doorways and ramps.							
Improvements in physical or ment health		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 scho							
Trust - service users wi	ll 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.							
Best interests		Care should have their best interest at heart. Gives reassurance and confidence in their care. Staff training makes service users safe							
Confidence in the care re	eceived	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 where							

conversations are not overheard. This creates confidence.

Subject: History

Topic: Life in Elizabethan England

Year Group: 11



1. How was Tudor society structured?

1. What was the Great Chain of

Being?

nobility?

- Tudor people imagined society as the Great Chain of Being.
- 2. God was at the top, followed by angels and others in heaven.
- 3. Humans were beneath, followed by animals and plants.
- Humans were subdivided with the monarch at the top, followed by the nobility, the gentry, and the peasants. This hierarchy was fixed and moving between the groups was almost impossible.
- 2. Who
 1. The nobility were the richest, most respected members of society.

 were the
 2. The highest title was duke, followed by earl and baron. These titles
 - were passed on and only rarely awarded by the monarch.

 3. Nobles were protected from torture and public humilication, and even if found guilty of treason would be beheaded rather than handed.
 - Most nobles were landowners and passed land and money from father to son. They made up 1% of the population but had about 14% of its income.
 - 5. However, nobles were dependent on the monarch for influence.
- 3. Who were the gentry?
- The gentry were landlords of the countryside. They lived by the labour of their tenants rather than working themselves.
- They had incomes between £10 and £2000 a year and some were richer than the poorer nobles.
- They had power in the form of important posts, so were often JPs or members of parliament.
- 4. The gentry grew as people made money in trade.

4. Who were the peasants?

- Peasants were the poorest in society and worked on the land.
 They often struggled for regular work and poverty was common.
- Luckier peasants with reliable lords could support families.
- Other peasants who fell out with their lords faced difficulties.
- Some were dependent on charity and were known as paupers.
- They begged or went to the local church for help.

2. How did the wealthy live?

- 1. How did people show their wealth?
- While the country was secure and stable, the rich were able to show off their wealth and status.
 They built impressive country houses and many hosted huge
- banquets featuring dishes of meat and expensive wines.

 3. Fashion was important and women wore fine clothes with white, lead-based make-up, to show they did not need to work outside.
- Men and women wore elaborate ruffs around their necks.
- 2. What were country houses

like?

- These were private residences not communal buildings.
 They were designed to show wealth rather than for security.
- Renaissance designs were often based on Greek or Roman architecture with a symmetrical appearance, oak panels, colourful tapestries, expensive glass windows, and stacked chimneys.
- . The centre of the house was the great chamber surrounded by as many rooms as possible. Servants had their own 'quarters'.

3. How did the poor live?

- What problems
 did Elizabeth
 inherit?
- Henry VIII's policies made life for the poor harder. Closing the monasteries removed a source of support and 'debasing' the coinage damaged trade and jobs.
- During Edward IV's reign, the cloth trade collapsed.
- Peasants were dependent on lords for security and could be cast out, so their lives were very insecure.
- 2. What problems emerged in agriculture?
- Bad harvests between 1594 and 1598 caused food shortages and starvation in some areas.
- The new system of land enclosure required fewer workers and left many people jobless and homeless.
- Many headed to the towns and cities for work but although these grew, there were still not enough jobs to go around.
- 3. What problems were created by population growth?
- During Elizabeth's reign the population grew from 2.8m to 4m people.
- 2. The birth rate increased and the death rate decreased.
- As there were fewer available homes landlords increased rents (rackrenting).
- Bad harvests meant less food which caused food prices to increase (inflation).
- A flu outbreak in 1556 killed 200,000 people, mostly poorer farm labourers, so less food was produced.

4. What was society's attitude to the poor?

1. Sympatheti c attitude

- The Great Chain of Being obliged higher people to look after those below them. This usually meant charitable donations rather than anything more significant.
- Attitudes changed in Elizabeth's reign because of growing poverty.
- More effort was made to help the 'deserving poor' find jobs or get charity. Almshouses were built to provide food and shelter.

2. Harsh attitude

- The 'undeserving poor' were beggars who didn't want honest work.
- In 1567 Thomas Harman produced a guide to beggars and the tricks they used to con honest people out of money.
- Many wealthy people became hostile to beggars. They were seen as the 'idle poor': lazy and deserving of punishment.

3. What types of beggars were identified?

- The Counterfeit Crank bit soap to pretend to froth at the mouth.
 The Baretop Trickster was a woman who lured men in by removing
- clothes, who were then beaten and robbed by her accomplices.

 3. The Clapper Dudgeon put on dirty bandages or wounded
- themselves to gain sympathy, claiming they had been wounded fighting for England.
- Tom O³Bedlam would pretend to be mad and follow people, so they would give him money to go away.

Key Word	Definition
Beggar	A person who had no work and begged for money or charity
Deserving poor	Honest people who were poor through no fault of their own (unfortunate poor). Sometimes split into 'helpless poor' to be cared for and 'able-bodied poor' to be given work.
Duke	The highest rank of the nobility
Land enclosure	A new style of farming that limited the area needing to be worked upon
Great Chain of Being	The hierarchy that Tudor society was based on
Inflation	A rise in the cost of a product e.g. food
Landlord	A landowner who rented his land to tenants
Pauper	The poorest peasants who were dependent on charity
Peasant	The lowest members of society who were mostly farm labourers
Rack renting	Deliberately putting rents up to exploit the level of need and make more money
Ruff	A type of frilly garment worn round the neck
Tenant	A person who rented land either for cash or providing labour
Treason	The act of betraying the

monarch, punishable by death

People who chose to beg

rather than work (idle poor)

Undeserving

poor

Topic: Life in Elizabethan England Subject: History

Year Group: 11

enjoylearnsucceed

BECKFOOT

A type of science

magic that sought

Institutions offering

Whitaift in London.

food and shelter

to the poor, First

combined with

to e.g. turn lead

into gold

set up by

tool that

Archbishop

A navigational

calculated a

position using the

To travel around

a starting point

A nickname for

Elizabeth showina

her as a glorious

A professional

writer of plays

introduced in 1601

to help deal with

Charity given to

the poor funded

The growing trade

in African slaves

sold to work in

North America

invasion fleet of

The Spanish

by tax payers

figure

The laws

the poor

the globe back to

Key Word

Alchemy

Almshouses

Astrolabe

Circumnaviaat

Gloriana

Playwright

Poor Laws

Poor relief

Slave trade

5. How did the government deal with poverty?

- Under Tudor kings beggars were generally punished harshly. 2. They could be put in the stocks, whipped or mutilated. In 1576 an Act was passed so localities could find work for 3.
 - the poor. Poverty was especially bad in urban areas.
- 2. In London, Bridewell Palace was used as a shelter for the
- homeless.
- Bedlam was established as a hospital for the mentally ill.
- Hospitals were opened for orphans and the sick.
- Conditions were still poor and poverty continued to grow, so crime grew as a result. Local authorities often struggled to cope with this.
- York: 1515 introduced beggar licences, 1528 appointed a Master Beggar to keep control of beggars, 'House of Correction' set up to offer work in weaving and spinning. Those who refused were sent back to their villages. Ipswich: 1569 introduced beggar licences, opened a
 - find a trade, had a House of Correction. Norwich: Offered the 'idle poor' work and gave food and care to the 'unfortunate poor'. Taxed rich citizens to pay for

6. Elizabeth and the Poor Laws

Punishme

2. How

did towns

and cities

deal with

poverty?

Poverty

studies

2. Successes

3. Failures of

the Poor

in favour

Arguments

against

Laws

of the Poor

Laws

case

- 1. What were In 1601 Elizabeth introduced the Poor Laws after seeing the Poor successes in dealing with poverty in some towns and Laws? cities such as York.
 - In each area of the country, the wealthy would be taxed to provide relief for the poor, old and sick.
 - The idle poor would still be treated harshly. These kinds of taxes had never existed on this scale.
 - Helped distinguish between authentic beggars and
 - Helped those who were genuinely poor while punishing those who were lazy or dishonest.
 - The numbers of beggars decreased.
 - Inconsistently applied across the country
 - Decrease in begging may have been due to fears of House of Correction rather than helping them
 - Areas argued over which paupers they had to help and
 - sometimes just sent them elsewhere

Key Question: Was Elizabethan England a Golden Age?

- Growth of culture: art, theatre, literature, education (even for some girls!) Arguments

 - Incredible accomplishments in science, architecture, exploration England became a hugely wealthy trading empire

Some superstitious beliefs (eg alchemy, astrology)

Brutal culture eg blood sports, attitude to beggars

3. Military power grew and territory expanded hugely

5.

- England was largely peaceful and national pride grew enormously with Elizabeth seen as 'Gloriana'
- Cruel torture and punishments 2. Huge divisions of wealth and class Low life expectancy and widespread disease

- hospital for the elderly and poor, trained young people to

3. Who was

involved in

theatre?

trade?

1. What was

like?

2. What

Tudor theatre

8. The Age of Exploration 1. What

- changes 3. Better defences and weapons improved fighting abilities. helped to
- 4. The astrolabe and better compasses improved navigation. enable 5. Voyages were still dangerous - Drake's big voyage returned with only one ship of the five that left. exploratio
- n?
 - 2. How did 1. Most voyages were structured around buying and selling goods. 2. People began to look beyond Europe to the Far East to acquire new and exciting products such voyages help
 - 3. Middlemen bought products directly and sold them on to English buyers, but this was expensive so the English wanted to extend their own trade.
 - Companies were founded to become experts in particular areas, for example the Muscovy Company (1555) traded in Russia.

 - 4. Many attempts to reach the Far East failed but the Americas were discovered in the process.

2. In return he would give her 1/5th of the gold and silver he found.

3. Raleigh went on voyages and sent others to colonise North America.

- 6. The East India Company was founded in 1600 and obtained products like silks, spices and
- - porcelain.
- 3. How did
 - them in Mexico in 1564. 2. Hawkins was a spy who became an important naval commander and trader, introducing tobacco to England after discovering it in America.
 - 3. The slave trade grew as there was a huge demand for agricultural labour in the Americas, to enable products to be sent back to Britain. 1. In 1584 Elizabeth gave Walter Raleigh permission to conquer and rule any land not ruled by
- were colonies establishe d in the New

World?

4. How

the slave

develop?

trade

opposition to Theatres were associated with drunkenness, crime and disease. theatre 3. People feared large gatherings would spread disease. existed? Puritans believed people should spend their free time praying and studying the Bible

3. What was the role of the theatre in society?

rather than watching plays.

Public theatres were popular with rich and poor.

developed, purpose-built attraction.

company to show how cultured they were.

Playwrights and acting companies became successful.

All actors were male with boys playing the female roles.

Performances were chaotic with audiences pushing and heckling.

The poor stood nearer the stage to watch the performance.

Some people felt theatre was sinful and wanted it banned.

- The theatre remained popular, and Elizabeth herself enjoyed plays.
 - William Shakespeare (1564-1616) was the head writer for the Lord Chamberlain's

Theatre developed during Elizabeth's reign from plays put on at an inn to a fully

The nobility had expensive seats and often chose to be patrons of a theatre

- He wrote 38 plays tragedies, comedies and history plays.
- Richard Burbage (1568-1619) was a leading actor in the Lord Chamberlain's Men and played many famous roles. He also owned a theatre.

- 1. Technology in shipbuilding enabled long voyages. 2. New 'lateen' sails made them faster and easier to steer.
- 1. Drake and his cousin John Hawkins (1532-95) led the first voyage to kidnap West Africans and sell Spanish
 - Armada Trading
 - companies
- 1588
- Firms that were responsible for trading in certain
 - - areas

undeserving poor

- - - Vaarants Another term for travelling beggars, the idle or
- 4. A colony was eventually established at Roanoke in 1587 but the settlers mysteriously disappeared. England never fully set up a colony in North America until after Elizabeth had died.

Des	ian	& T	ecl	hno	loav:	Food
D C 3	911	G 1	CC		97,	1004

Unit 2 – Ages & Dietary Needs

Year Group: 10



Age groups - dietary needs Special Diets – dietary needs **Key Vocabulary** Young 5 a day / Eat Well Guide **Food Allergy** A damaaina immune Religion / Lifestyle Children recommendations response to a food Halal (Muslim) All food must adhere to Islamic Law. No Pork Starchy carbs – energy Protein growth 2 Hindu No not eat beef – sacred animal Calcium/vit D Intolerance An inability to eat a Full fat options – limit salt/sugar food without negative No pork. Do not mix dairy and meat in the Kosher 2 3 effects (Judaism) same meal. Same as young children **Teenagers** Extra iron for menstruation / **Buddhist** Usually vegetarian. Do not eat meat or fish Gluten A protein found in muscle growth 3 wheat. Health – related **Adults** No change between age 19-Coeliac Sufferers react to gluten - must avoid it Lactose A sugar found in milk 5 a day / eat well guide 3 Sufferers cannot digest lactose. They will Lactose recommendations Food that is forbidden Haram experience cramps wind and diarrhoea if Intolerant Lower fat – increase fibre 5 under Islamic law consumed. Pregnancy Calcium, iron, B12 (folic acid) Mediterrane A diet high in No need to increase calories. Nut/ other Must avoid food they are allergic to. Can an diet vegetables, olive oil results in anaphylaxis and even death if eaten Avoid too much vit A alleraies 6 and moderate protein intake **Elderly** Protein to repair body cells Advised to follow a low sugar, low saturated Coronary Calcium & vit D to maintain **Heart Disease** fat, high fibre, Mediterranean style diet bones / teeth **Anaphylaxis** A serious life More fat to keep warm in Type 2 Avoid processed meat, low salt, wholegrains threatening response winter **Diabetes** and lots of fruit and vea to an alleraic Soft foods – to help with 7 reaction. Happens in **Anaemia** Caused by iron deficiency chewing seconds. Fibre to prevent constipation 0 Ethical Lookina at the similarities and More calories will be required Active Veaetarian Do not eat meat or fish but do eat dairy. 11 differences between Comparison Carbohydrates for energy two things Protein for muscle repair Avoid eating ALL animal products - meat, fish, Vegan 12 Water for hydration diary, honey Basal metabolic rate **Sedentary** Less calories will be required Do not eat meat but will eat fish 9 13 Pescatarian **BMR** Cautious of fat intake (if not (inactive) Choose to eat vegetarian/vegan some days used as energy it will be **Flexitarian** Physical activity level 14 10 PAL stored) of the week.

☐ Research the RDI amounts for each target group

☐ Is there an Eat Well Guide for vegans vegetarians?

Design & Technology; Food				Unit 2 – Ages & Dietary Needs			ear Group:	: 10	BECKFOOT CONTROL OF SCHOOL CON		
Cooking methods definition				How they impact nutrients			Tips tp avoid nutrient loss				
1	Boiling	Cooking in water at 100°C e.g. eggs, rice, pasta potatoes, carrots and lentils.		Boiling	Vit C loss (up to 50%), B1, B2 and B3 are destroyed by prolonged heat. Some calcium and sodium will dissolve. Water soluble vitamins will dissolve into cooking	1	Boiling, steaming, poaching	Use as little possible an any liquid le for a sauce	d consume eft in the pan		
2	Steaming	Steaming cooks food in a fast way will little contact to water e.g. vegetables, dumplings, fish			water. Over cooking meat will make protein less digestible. Some starch can be released making it easier to digest.	2	Roasting	Add the jui	ces that drip n back onto		
	Poaching	Cooking food in a shallow pan of water or wine, below	2	Steaming	Vitamin C (up to 15%) and vitamin B are lost but in fewer amounts. Steaming also retains lots of antioxidants.	3	All cooking methods		and if you do,		
3		boiling point with only the occasional bubble visible. It is		Poaching	Vitamins C, B and folate will leach into the cooking liquid but vitamins A, D, E		do it after cooking to maximise nutrients.				
		kept just under 82°C e.g., eggs, fish	3		and K are fat soluble and heat tolerant so will survive	4	All cooking methods	Cook vegetables in smaller amounts of water			
	Baking	Baking used dry heat without direct contact to a flame,	4	Baking	The high heat can easily over cook proteins which will damage vitamins B		All cooking	• 1 '			
4		typically in oven. e.g. bread, cakes, pastry			and C.	5	methods				
5	Grilling	Uses dry heat applied to surface of food e.g. meat,	5	Grilling	Little nutrient loss but if fat melts vitamins A, D, E and K as it will melt off. Grilled vegetables should retain all the nutrients.	3					
_		vegetables		Stir-frying	The fat used will increase the amount of vitamin A and beta carotene. Heat may	6	All cooking Cut food after rather before cooking if pos				
6	Stir-frying	Food cooking in a small amount of oil on a very high heat e.g. meat, vegetables	6		cause some damage to vitamins C and B but not a lot as it is a short cooking time.	7	All cooking methods		tables for the		
7	Roasting	Same as baking but a higher heat – dry heat. E.g. meat, vegetables	7	Roasting	High heat decrease vitamins C and B (up to 40%) and it may increase the fat content as it is cooked in oil.	8	All cooking methods	When cook poultry and should use	fish you		
8	Frying	Food submerged in hot fat e.g. chips, meats, spring rolls	8	Deep fat Frying	Increase in fat and a loss of fat-soluble vitamins (A, D, E and K).			time.			

Plan a dish that includes 3 cooking methods.

Discuss how you can modify a recipe to make the cooking method healthier?

Su	Subject: Maths Term: Half term 2							Year Group: 11F BECKFOOT SCHOOL enjoylearns			
Ratio and Proportion: Ratio				Number: Per	centages		Sto	atistics: Ave	erages		
1	Relationship between	5 blue sweets 2 red Ratio 5:2		One quantity as a % of another	Find 30 as a % of 78. 30/78x100= 38.5%		1	Mode	Most common number in a data set		
	fractions and ratio	Fraction of blue 5/7	2	% increase and decrease	/		2	Median	The middle number when all numbers are in order		
2	Direct proportion	$y \propto x$			Decrease 40 by 35% 40 x 0.65= 26		3	Mean	Add all the d	ata up and w many there are	
		y = kx for a constant k	3	Find a %	Change100		4	Range	Highest value	e – lowest value	
					Original × 100		5	Mean from a		Create a fX column and multiply x by the frequency	
Ge	eometry: Are	ea and P erimeter	4	Compound interest	$A = P\left(1+i\right)^n$ A = final amount including principal P = principal amount			frequen cy table		wers together	
•	e Perimeter	TIN BIGITIOIO	i = interest rate per yearn = number of years invested			Key Vocabulary					
2	Parallelogram Area	Base X perpendicular height	A	Algebra: Linear graphs				Rhombus	A rhombus	A rhombus looks like a square that has fallen over	
3	Trapezium Area	(a+b) x perpendicular height / 2	1	Draw the graph y=3x+4	X -2 -1 0 1 y -2 1 4 7				All sides ho Opposite s and oppo	s have equal length. ite sides are parallel, pposite angles are	
4	Triangle Area	Base X perpendicular height / 2		y = mx + c	m = gradient ie. How steep the		H	0 1211	. ,	a Parallelogram).	
5	Parts of a	circumference			curve is c = y intercept ie. Where the		2	Quadrilatera	The name given to any 4 sided 2D shape.		
	circle	le		2 Gradient of a line	graph crosses the y axis y=mx+c (m is the gradient)		3	Interior	Inside Interior and the shape	gle: angle inside	
		sector			Change in X		4	Polygon	Any 2D sho lines	ape with straight	
		chord					5	Sum	Another w	ord for add	
		tangent segment			To calculate the gradient: m=y/x			Expression		ion of different no equal sign	
_	6 ************************************	HVP 11 2	3	Parallel lines	If m is the same. The lines are	\exists	7	Quadratic	Contains t	he term x²	
6	Circle Area	∏ X Radius ²			parallel		8	Proportion	Part of a w	vhole.	

Subject: Maths

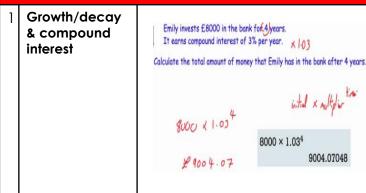
Term: HT2 September Part 1

Year Group: 11 Higher



4-4,=m(x-x,)

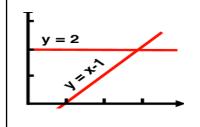
Algebra Iteration / Linear Graphs



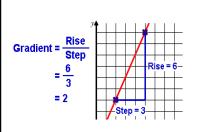
4 Solve where 2 lines intersect

Solution

(3,1)



Gradient of a straight line



Use y = mx+ c to identify

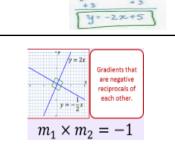
> perpendicul ar lines

8 Equation of

parallel line

given point

through a



Eg. A straight line has the equation y = -2x-3. Find the equation of the

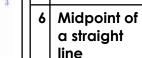
parallel line passing through the

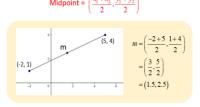
(1,3)

Approx. solution using iteration: using the previous answer to find the next answer.

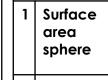
Starting with $x_0=0$, use the iteration formula $x_{n+1}=\frac{1}{2}-\frac{x_0^2}{2}$ three times to find x_1, x_2 and x_3

$$\chi_1 = \frac{1}{3} - \frac{0^2}{3} =$$





Key Vocabulary





 $s/a = 4\pi r^2$

2 Surface area cone

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

Curved surface area only $= \pi r l$

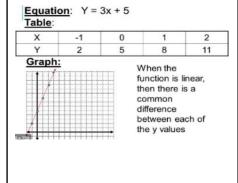
REMEMBER: sometimes

3

you may need to calculate the slant of the cone (I) using Pythag

Volume $\frac{1}{3}$ x (base area)x height **Pvramid**

Linear graphs



Linear equation

from 2 points

% increase /

decrease

Term: HT2 September Part 1

Year Group: 11 Higher

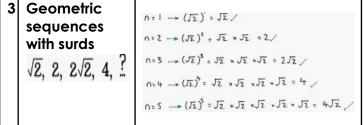


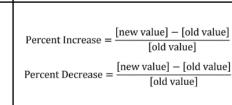
Number Surds / Percentages

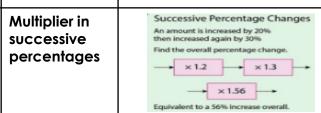
1 Rationalise: x top & bottom by the surd
$$\frac{3}{\sqrt{5}} = \frac{3}{\sqrt{5}} \times \frac{3}{\sqrt{5}}$$

$$\frac{3}{\sqrt{5}} = \frac{3}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} \qquad (\sqrt{5} \times \sqrt{5} = \sqrt{25} = 5)$$
$$= \frac{3\sqrt{5}}{5}$$

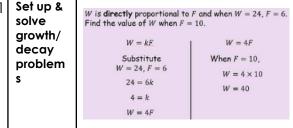
2 Expand brackets
$$2(5+\sqrt{3})$$
 $10+2\sqrt{3}$

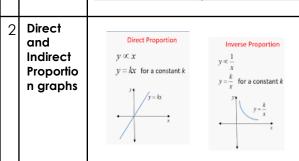


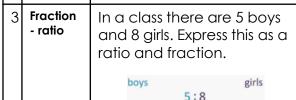


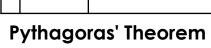


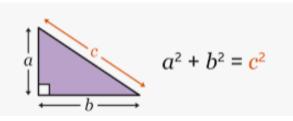
Ratio & Proportion





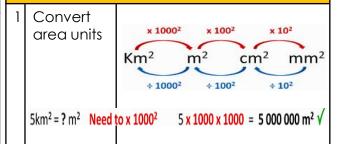


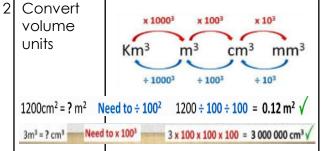




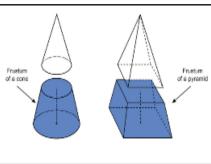
 $\frac{5}{13}$ are boys $\frac{8}{13}$ are girls

Geometry Area & Volume





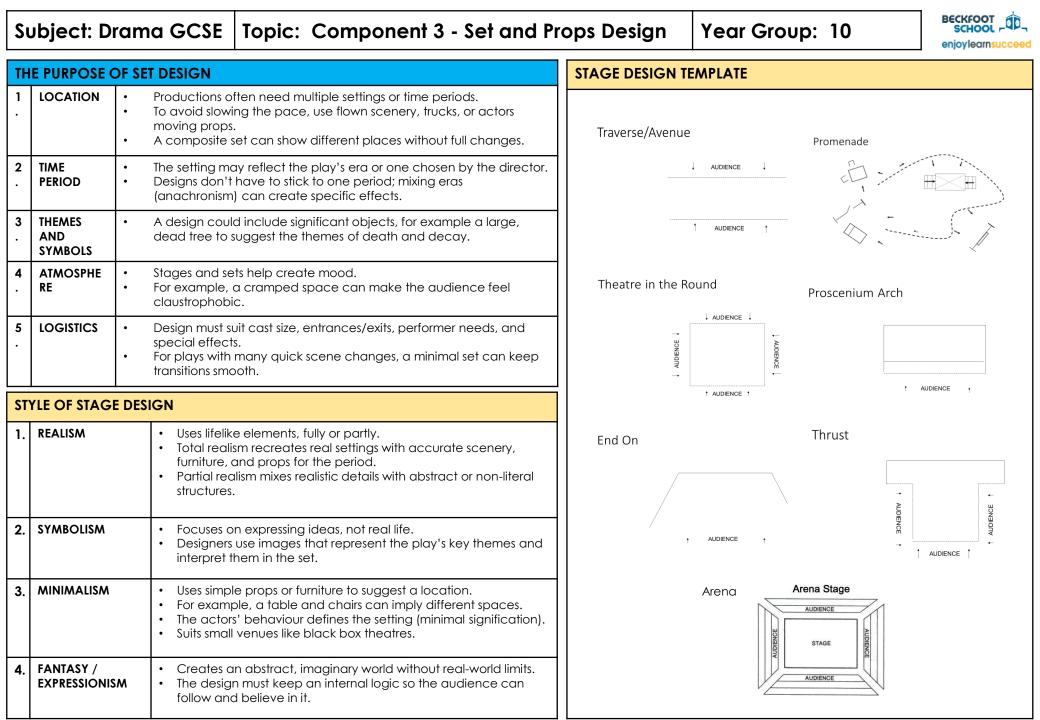
- 3 Surface Find the area of all the area of prisms Find the area of all the
- 4 Frustum
 volume or
 surface
 area



	Music	Т	opic	: - Toto -	Africa			Year Group:	10/11	BECKFOOT SCHOOL POP
1.	Context a	nd structure	3.	Harmony	and tonality		4. /	Ausical Features		
1	David Pa and Jeff Porcaro	Toto band members who wrote Africa.	1	Diatoni c	Chords that belong to the key of the piece.		1	Moderately fast	,	noderately fast.
2	Toto IV	Fourth studio album that the track is from.		Root position	Chords with the bottom note of the chord as the lowest note. E.g. C, E, G.	1	2	Simple duple time	A metre with t beats per bar	(2/2)
3	1981	When the piece was recorded.	2				3	Ostinato rhythms	Rhythms that r regularly, this p quavers and s	piece features
4	Soft rock	A style developed in the late 1960s that relied on		First inversio n	Chords with the middle note of the chord as the lowest note. E.g. E, G, C.		4	Syncopation	Rhythms that a beat.	are off the
		simple melodic songs with big, lush productions.	<u> </u>	Chorus	The chorus uses a vi (F#m) –	$\left\{ \left. \right \right.$	5	Vocal rhythm	Follows the no speech and the	tural rhythms of ne lyrics.
2.	2. Form and Structure		4	chord pattern	IV (D) - I (A) - V (E) progression.		6	Mezzo-forte	Moderately lo the song.	ud for most of
1	Chorus	erse A structure with verse and horus chorus sections, often called		D:#		┤┆	7	Forte	Loud in the ch	oruses
	form	strophic.	1	Riff a	A repeating musical pattern, can be heard in		8	Homophonic	Tune with acc	ompaniment.
2	Intro	Short opening section, usually instrumental (4 bars)	5		the intro, verse, link, instrumental and outro. Uses the chords A – G#m – C#m.			Rock Band	A typical rock of drum kit wit percussion, lea	h additional
3	Verse	same music but different lyrics each time				9		guitars, synthe lead vocals a backing voca	sisers, male nd male	
4	Chorus	The catchy, repeated section of a song that comes between the verses.	6	Harmo nic rhythm	The speed the chords change e.g. once per bar.		10	Conjunct movement	The music mo	
5	Link	A section that bridges the verse and chorus.	 	B Major	The majority of the key is in	$+ \left[ight]$	11	Wide vocal range	Uses a lot of no low and high i	otes, with both notes used.
6	Instrum ental	Section of the music for the instruments to play.	- 7 		B Major.	$\left \ \right $	12	Pentatonic scale.	Five note scale b.	e is used in Riff
7	Outro	The final section of the piece.	8	A Major	The choruses are all in A major		13	Vocal improvisation	Vocalist make on certain scc	
List	tening to ot	her pieces by Toto such as Hold the	line a	nd Rosanna	and pieces by other bands sucl	h a	ıs Jo	urney, Asia, Foreiç	gner and Chicag	0.

	Subject: GC	SE PE	Topic	:: 2.2 -	Sports Psychology	Year Group: 10/11		BECKFOOT SCHOOL SCHOOL SCHOOL SCHOOL					
KG1	– Characteristic	cs of skilful m	ovement										
	Motor skill definit	ion											
1	Motor skill		A learned action o	r task t	hat involves body or limb movements								
	Characteristics o	of skillful mov	ement:										
	Characteristic	Description		Sporti	Sporting examples								
2	P redetermined		tended. It knows exactly what they and they do it.	l	 A tennis player knows where to place the serve in tennis and serves it into the area A dancer knows their routine and performs the correct moves in the correct order 								
3	F luent / fluid	The moveme	nt is smooth and flowing		patsman in cricket hits a shot with correct timing ootballer strikes the ball smoothly on a penalty		on smo	ooth					
4	A esthetic	The movement looks good and is pleasing to the eye.			 A gymnast performing a routine that looks good A rugby player making a tackle that looks well timed 								
5	Coordinated The performer uses different body parts together effectively.				padminton serve using hand-eye coordination to basketballer coordinates his arms, legs and eye:		ı lay u	p					
6	Efficient There is little wasted effort or energy. The skill is made to look easy.				gymnast performs a somersault and lands neatl ackle in rugby is well timed to avoid wasted en		ort.						
KG2	2 – Classification	of skills											
	Classification	Description)										
7	Simple skill	A skill that	nas few sub-routines, requir	ing few	ng few decisions to be made or little information to process.								
8	Complex Skill	A skill with	ots of sub routines and a lo	ot of de	Sor	mersault							
9	Closed Skill	A skill that	s predictable and is not af	fected	A jo	avelin throw							
10	Open Skill	A skill affec	ted by an unpredictable o	and changeable environment e.g. conditions of play/ teammates/ opponents A rugby tackle									
	Continuums of s	skills											
11	Skills continuum		A method of categorising	skills by	placing them on a continuum between t	wo extremes							
	Continuum		Classifications		Sporting examples								
12	Difficulty contin	uum	Simple to complex skills		Simple Running in straight line Taking	g a penalty	Some	Complex					
13	Environmental continuum Open to closed skills				Closed Javelin throw Th	nrow in	Rugb	Open y tackle					

	Subject: GC	SE PE		Topic: 2.2 - Sports Psychology		Yea	r Group: 10/11	BECKFOOT SCHOOL POPULATION OF THE POPULATION OF				
KG3	– Goal Setting											
1 4	Goal setting			The process of setting targets t	that a performer v	will work tov	vards achieving.					
	Reasons to use	goal setting										
	Reason			Description								
15	E xercise / trainin	g adherence		Goal setting helps a performer to stick to their training by having a purpose to their exercise.								
16	M otivate perforr	mers		Goals can help to increase effort and increase enjoyment by meeting goals.								
17	O ptimise perform	mance		Setting and working towards goals increases the chanc	e of a person impro	oving and be	eing increasingly successfu	over time				
	SMART Targets											
	Principle	Description			Example							
18	S pecific	Goals should	d targe	et a specific aspect of performance to develop.	To improve a ser	rve in tenni	s.					
19	M easurable			be measurable to see how much they need to neir target or to keep them focused	70% of first	serves in service box.						
20	A chievable	Goals should	d be w	ithin the reach of the performer.	Currently serving	g 60% of firs	t serves in service box.					
21	Recorded			s should be written down, so they are not te them more meaningful.	number of	first serves that are in.						
22	T imed	Goals should	d have	time limits to keep a performer on track.	al by the er	nd of a two-week trainir	ng programme.					
KG4	– Mental Prepai	ration										
	Mental prepar		que l	Description	E							
23	Positive thinking			Before an event, a performer thinks positive though performance and shuts out negative thoughts of fo			Improves confidence Increases or controls Increases motivation	arousal				
24	Imagery			A performer creates pictures in their mind and can help them relax			Helps a performer relaxHelps control arousalGets them 'in the zone'					
25	M ental rehearsal			A performer rehearses a technique / tactic / performance in their mind before physically performing it.			Allows effective decision makingIncreases speed of reactions					
26	Selective atter	ntion		A performer focuses on only the important aspects and blocks out distractions	of their performar	nce	Increases concentration					



Sub	ojec	t: Drama GCS	E Topic: Component 3 - Set and Props Design	Year Group: 10	BECKFOOT SCHOOL POPULATION OF THE POPULATION OF							
Set	and	d Props Design										
1.	I	INTERACTION	How the set lines up with the other design elements, e.g., costume overall effect. The textures of surfaces on the stage (the floor or the furniture can interact differently with other elements.									
2.	M	MATERIALS	Materials (wood, metal, fabric etc) create texture. Texture can be created using paint effects (for example a painted woodgrain effect). Different textures can give the audience information about the setting of the play.									
3.	P	POSITION AND LEVELS	here you set is placed on the stage and the angle it is positioned at. le us of rostra, ramps, treads, blocks, staging units, scaffolding and planks can be used to create levels and an be joined together to create steps or other shapes.									
4.	A	AUDIENCE POSITIONING	The position of the audience can create different experiences. Sightlines to mean what the audience can and cannot see. As a set designer, you will want to make sure that your set does not block the audience's sightlines and prevent them from seeing the actors and following the action. You might also deliberately want to block some things from the audience.									
5.	С	COLOURS	The colours used on the stage floor, pieces of scenery, stage furnitumany functions: they can be used to reflect colours in real life, creathe mood of a place or the personality of a character.	•	_							
6.	T	TYPE OF STAGE AND SIZE	For example: Thrust, In the Round, Traverse, End on, Proscenium Arch, Promenade etc The size and the shape of the stage floor, any platforms, levels, or pieces of scenery and any stage furniture can have a different effect on the audience or create a different atmosphere.									
7.	S	STYLE AND PERIOD	For example, a play in a naturalistic style would aim to create the in looking props and set items. A play performed in a minimalistic style represent a setting.									

Sub	ject: Dran	na GCS	E Topic: Con	nponent 3 -	Set c	and Props	Design	Year Group: 10	BECKFOOT COD, enjoylearnsucceed					
TYPES	OF STAGE													
1.	In the Round		n the audience are pare, with entrances ar			he outside of the performers' playing space. The stage area may be circular or audience.								
2.	Thrust	Whe	n the audience surro	und the stage on t	three s	hree sides, and the other side connects to the backstage area.								
3.	Proscenium Arch		on staging on only or cenium arch)	ne side of the stag	e, but	in an older style	e theatre with c	a decorative arch framing the who	le stage (called					
4.	Traverse		en the audience is pla ed corridor.	the audience is placed on either side of the actors' playing space or stage, facing each other. This staging form is also corridor.										
5.	End on	Whe	n the audience sit on	one side of the st	age o	only, facing it in the same direction.								
6.	Promenade	Whe	n the audience can i	move around and	l follow	the action dur	n during a performance.							
7.	Arena		rm of theatre 'in the ro gests performances or		udiend	ce surrounds the	e stage. Ancier	nt Greek theatres were arena stage	es and the term					
DRAI	PERY				CR	EATING EFFECTS	WITH SET DESIG	GN						
1.	Backdrops	as part of t	cloth hung behind the s he scenery that can be ght or projections shone	painted or have	1.	Projections	Projections are becoming more common within set design and can be used to add detail and texture on stage. In some venues scenery can be projected, which can be very effective but can have							
2.	Cyclorama		t the very back of the st					example, unless it can be projected fr cast shadows onto it.	rom bening the					
		appearand white or no	and is usually used to giv ce of "sky". Cycloramas atural muslin (flat panels)	are created with	2.	Hydraulics	Machinery use and down.	Machinery used in large-scale productions to move set, usually up and down.						
3.	Gauze	'	o achieve the desired look. curtain that can be lit either from the front t				o achieve the desired look. curtain that can be lit either from the front to		3.	Smoke	Used to create dramatic effects and created with a fogger or a hazer (using dry ice).			
		make it op transparen	aque, or from behind to t.	make it	4.			A moving platform on wheels (called 'casters'), on which a piece of scenery is built to facilitate scene changing.						
4.	Tabs		for stage curtains that c or fly vertically.	an open	5.	Revolve	A turntable but then turned.	uilt into the stage floor on which scener	ry can be set and					
5.	Ground row	part of a lo	r piece of stage scenery andscape. It is sometime am the audience.		6.	Flying		nual or electric system that lifts perform unts and aerial sequences.	ners off the stage,					
6.	Flat	A flat is a p	iece of scenery used to		7.	Trap doors	An entrance/e	exit from underneath the stage (often i	involves a scissor					
	or to c be joir		conceal a backstage area. A series of flats can pined together to make a run , where each flat is corted by a brace with a heavy weight			Set dressing	Smaller items t establish settir	that add details to a set, such as stage ng and era	furniture, to help					
		attached	,	, - 5	0	Pyrotochnics	The use of fire	works within theatre to create offects	o a explosions					

Pyrotechnics

The use of fireworks within theatre to create effects, e.g., explosions

attached.

Topic: Structures & Architecture Mixed Media Experimentation

Year 11

BECKFOOT POP

Kı	nowledge Gro	up 1 -	- Experimentation		Knowledge Gro	up 2 – Key Techniques			k	(ey Vocabulary
1	Development	life ar series colou attem	g something seen in and translating it into a of shapes, patterns, or and tones, in an another to convey its acce or true meaning.	1	Collage	A technique and the resulting work of art in which pieces of paper, are arranged and stuck down onto a supporting surface.	1	l	Abstract	Something that does not show directly the visual representation of a given object. Instead, it represents the idea of it through shape line, tone and colour.
2	Simplification		oving excess detail	2	Embroidery	The craft of decorating fabric or other materials using a	2	2	Form	The visible shape of an object or thing.
		from an image while keeping the most important characteristics or elements. For example, in an image of an architectural form taking only the main structures, shapes or patterns. tically An arrangement of shapes,		needle to apply t		needle to apply thread or yarn.	3	3	Geometric	Characterized by or decorated with regular lines and shapes.
	A . II . II . II			3	Marbling	Colouring or marking that resembles marble, especially as a decorative finish.	- 4	1	Layout	The way in which visual elements are arranged in a picture. From strikingly simple to highly complex, these are important choices each photographer must make while taking pictures.
3	Aesthetically pleasing	forms colou intere piece enjoy	rangement of snapes, , lines, tones, and urs that is visually esting or successful. A e of visual work that is able to look at and tigate.	4	Mixed Media	A term used to describe artworks composed from a combination of different media or materials.	5	5	Focus	The act of focusing the camera involves ensuring the image or part of the image can be seen clearly including detail and texture.
								5	Contrast	The way in which different elements in a picture interact and
			Knowledge G	roup	3 Reflection and analy	rsis				look, for example: light & dark, sharp & soft, focused & blurry,
1	Lighting		that gives strong shado	ws an	d additional interest to a scu	ample, directional light from a torch ulpture, or diffuse lighting from a		,		crowded & empty.
2	2 Depth of field The amount to which field where only a sm depth of field where			er tonal values and allows detail to be seen more clearly. a photograph is focused on an image. For example, shallow depth of all part of an object is in sharp focus where the rest is blurred, versus large nost, or all, of the image is focused. Depth of field can be used to ture or aspect within an image, it can also be used to emphasise depth					Leading lines	Lines found in the picture that help direct the attention of the viewer around the image. These are an important compositional tool.
3	Backgrour	nd	The object or scene be	signifi		. Your choice of black or white d photograph. Ensure that you utcomes.	8	3	Architectural	Relating to buildings and the built environment, including all manmade structures.

	Subject	: RE Topic: Christian	Pro	actice	S	Year Group: Year 11 BECKFOOT SCHOOL POR SCH			
Wo	ship and Pray	er		Pilgr	grimage and Celebrations				
1	What is Church?	•The People of God/Body of Christ, among whom Christ is present and active. •Members of a particular Christian denomination/tradition		1	Why go on pilgrimage?	Healing, miracles, education, reflection			
		A building in which Christians worship.		2	Why do Christians go to	Place of pilgrimage where the Virgin Mary appeared to St Bernadette in a series of visions and it is claimed that			
2	Types of worship?	Liturgical, non-liturgical and informal. Worship can also be done in private.			Lourdes?	miraculous healings have taken place.			
3	Purpose of Prayer?	To communicate with God, seek revelation, reflect on life, follow biblical teaching.		3	Why do Christians go to	Place of pilgrimage founded by St Columba in the fourth			
4	What is the Lord's	The prayer taught to the disciples by Jesus; also known as the 'Our Father' and widely said by Christians in both			lona?	century.			
	Prayer?	church services and privately.	_	4	Importance of Christmas?	Remembers Jesus' incarnation and God's gift to humanity of his son.			
5	What are set prayers?	These are prayers written throughout the centuries which many Christians worldwide use (eg The Lord's Prayer).		5	Importance of Easter?	Remembers Jesus' crucifixion and resurrection to atone for sin			
Sac	raments			Role	of the Church				
1	What is a sacrament?	The RCC recognises 7 sacraments and the CofE recognise 2. Baptism and Holy Communion are key sacraments.		1	What does the Church do in local communities?	They run food banks to tackle poverty and offer street pastors at night time			
2	What is believer's	Initiation into the Church, by immersion in water, of people old enough to understand the ceremony/rite and who		communities?					
	baptism?	have made the decision to live a Christian life.		2	What is the aim of mission?	Jesus told his disciples to 'make disciples of nations. The Gospel is 'good news' to be shared with others. This will increase church membership and increase the Christian community.			
3	What is infant baptism?	Sacrament of initiation of babies and young children into the Church				The Alpha Course is an online course for young people to explore faith.			
4	RCC Eucharist?	RCCs believe that the bread and wine become Jesus' body and blood. This is transubstantiation.		3	What does the worldwide Church do?	Works for reconciliation between war-torn countries. E.g. CAFOD work in disaster zones to bring food and shelter to victims.			
5	Non- conformist Eucharist?	They have an 'open table' where anyone may take holy communion. The wine is often non-alcoholic				Tackle persecution, including religious persecution. E.g. Open Doors tries to save Christinas from persecution in their countries.			

Subject: RE	Торі	c: Christian Practices		Year Group: Year 11	BECKFOOT SCHOOL POPULATION SCH						
Key Word	Definition										
Baptism	The sacrament through which peopl	e become members of the Ch	urch. It involves the u	se of water as a symbol of the w	vashing away of sin.						
Catholic	The tradition within the Christian Chu the communion of all Christians, the				erm 'catholic' refers to						
CAFOD	A Christian charity that provides eme	ergency and long-term aid to t	ne developing world								
Christian Aid	A Christian charity that provides emergency and long-term aid to the developing world.										
Christmas	The festival/celebration to remember the birth of Jesus.										
Easter	Festival/celebration of the resurrection coming of the Holy Spirit to earth follows:		ends with Pentecost (50 days after Easter Sunday) whi	ch remembers the						
Eucharist/holy communion	Literally 'thanksgiving'; a sacrament in	Literally 'thanksgiving'; a sacrament in which the death and resurrection of Jesus are celebrated, using bread and wine.									
Food banks	Places in local communities where p	eople in need can go to collec	ct food; often run/sup	pported by local churches and r	eligious charities.						
Informal prayer	Spontaneous prayers spoken from th	e heart which are personal an	d unique to the perso	on/people at the time							
Liturgical worship	A church service which follows a set										
Law	Rules or commands which must be fo	ollowed; the law of God is reve	aled in the Bible.								
Mission	Literally 'sent out'; the duty of Christians to spread the gospel (the good news about Jesus).										
Non-liturgical worship/inforn worship	A service which does not follow a se	t text or ritual; sometimes spont	aneous or charismat	ic.							
Orthodox	A denomination/tradition of the Chu	rch popular in some parts of Ed	astern Europe. There	are two main Orthodox Churche	es – Greek and Russian.						
Persecution	Facing hostility and ill-treatment; som	Facing hostility and ill-treatment; some Christians face punishment and death for practising their faith.									
Pilgrimage	A religious journey to a holy site/sacr	ed place, it is an act of worship	and devotion.								
Prayer	Communicating with God through w God.	vords of praise, thanksgiving or	confession, or reques	ts for his help or guidance; listen	ing to and speaking to						
Private Worship	A believer giving God praise and wo	rship on their own.									
Protestant	Christian denominations in which aut Baptist).	thority is generally based on the	e Bible, rather than C	hurch tradition/teaching. (eg Ar	nglican, Methodist,						
Sacrament	The outward and visible sign of an invisible and spiritual grace.										
Street Pastors		A Christian organisation involving people working, mainly at night, on city streets giving care to those who need it.									
Tearfund	A Christian charity that provides emergency and long-term aid to the developing world.										
Worship	Showing adoration and reverence; of	Showing adoration and reverence; offering praise to God.									
	'forgive our sins as we forgive those who sin against us' Lords prayer Bible	'This is my body that I have given for you' Bible	Jesus is the light of the world' Bible	'Therefore go and make disciples of all nations' Bible NT	'I was naked and you clothed me' Bible NT						

Bible Bible Bible Bible NT clothed me' Bible NT **Key Quotes:** 'set their minds on a **Christian Practices** 'A voice came from heaven, you are 'Do this in remembrance of 'your father who sees what you have my son whom I love, with you I am well 'I baptise you in the name of the father, son and the holy pilgrimage' done in secret and will reward you'

Bible me' pleased' spirit' Bible NT **Bible NT** Bible

Su	bject: Trilogy Science (Biology	y) Topic: Ecology				Year Group: 11				
Kno	owledge: Abiotic and Biotic Factors	Ke	y Vocabulary		Ke	Key Vocabulary				
en	i otic: Non-living factors of an vironment e.g. moisture, light, apperature, CO ₂ , wind, O ₂ or PH	1	Biodiversity	The variety of living organisms	8	Ecosystem	The interac between the organisms of	ne living		
	lic: Living factors of an environment . predators, competition, pathogens	2	Carrion	Decaying flesh and tissue of dead animals			different fa environmer	ctors of the		
Kno	owledge : Adaptations				9	Global	The increas	e of the		
1	Structural adaptations are features of the organism's body e.g. colour for camouflage	3	populations of		warming	average global temperature				
2	Behavioural adaptations are how the organism behaves e.g. migration to a	different species living in a habitat 10		Habitat	Where a living organisms live					
	warmer climate	4	Competition	The negative			organisms i	ive		
3	Functional Adaptations are the ways the physiological processes work in the organism e.g. lower metabolism during hibernation to preserve energy	interaction between two or more organisms which require the same limited		Interdepende nce	The interact between two organisms-mutually be	vo or more where it is				
Kno	owledge: Food Chains	<u> </u>		resource	10	<u> </u>				
1	The source of all energy in a food chain is the sun's radiation. It is made useful by plants and algae	5	Consumers	Feed on other organisms for their energy	12	Population	The numbe individual of a single solution in half	organisms species		
	The Philippe and and the control of	6	Decomposers	Organisms which	12	<u> </u>				
The living organisms use the energy to produce biomass and grow. When a living organism is consumed, some of				feed on dead and decaying organisms	13	Predators	Organisms for food	which kill		
	the biomass and energy is transferred.	7	Deforestation	The removal and destruction of trees	14	Prey	The animals eaten by the predators			

Su	ubject: Trilogy Science (Biolog	JY.)	Topic: Ecology		\	Year Group: 11		
Kr	nowledge: Water Cycle			nowledge: Field Technique		Kr	nowledge: Decay – RP – (Triple)		
af	onvection is the movement caused within luid as the hotter, less dense material rises d colder dense material sinks			e distribution of an organism is affected the environment and abiotic factors		1	Investigating the effect of temperature on the rate of Decay of Milk by measuring pH change		
1	Evaporation occurs when heat energy is transferred to water particles as kinetic energy – particles turn from liquid to a gas	1 Quadrats can be used to measure the frequency of an organism in a given area e.g. school field				2	IV : temperature DV: time taken for indicator to change colour		
2	Condensation occurs when moving particles transfer kinetic energy to	2 Quadrats should be placed randomly and collect data from two different areas to compare 3 Mean = total number of organisms number of quadrats				3	Mean = total time taken for pink colour to disappear ÷ number of trials		
3	surroundings – gas turn into a liquid Precipitation occurs when rain, snow, sleet, or hail falls to the ground					Kr	rowledge: Food Security (Triple) Food security means a whole population		
4	Transpiration is the process by which water is carried through plants from roots to the stoma on the underside if		Knowledge: Decomposition (have access to enough nutritious food to sustain a healthy lifestyle		
	leaves and it evaporates to surroundings		Triple) Decomposition is the process of rotting (decay) of a material			2	This is achieved using methods which the planet can continue to sustain for further generations of the populations		
Kr	nowledge: Carbon Cycle		1	The optimum conditions for decay to	$\left \cdot \right $	3	Several biological factors which can threaten food security are		
1	Carbon is continuously transferred to and from atmosphere		<u>'</u>	occur are warm, moist and plenty of O2			Increasing birth rate, changing diets, new pests and pathogens, widespread famine, drought, increasing costs, war		
2	Carbon in the atmosphere combines with oxygen to make CO2		2	Foods can be preserved by cooling, canning, freezing, drying, pickling or adding salt or sugar		Ad	and conflicts Additional info: Trophic levels describe the		
3	Processes involved in the carbon cycle are photosynthesis, respiration, dissolving, combustion and decomposition		3	Microorganism ferment waste materials. Producing biogas, which can be used as a fuel source. Biogas is produced in a generator using microorganism		po Lev Lev	osition of an organism within food chain evel 1: Producers evel 2: Primary consumers evel 3: Secondary consumers evel 4: Tertiary consumers		

Subject:	Science	(Chemistry))
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Topic: Quantitative Chemistry

Year Group: 11



Calculation Types I			Co	Calculations Types II			Key Vocabulary									
1	Relative atomic mass (A _r)	A _r = <u>sum of (isotope abundance x isotope mass no.)</u> sum of abundances of all the isotopes Example: ³⁵ Cl 75% abundance & ³⁷ Cl 25% abundance	5	HT Only: The mole & Avogadro's Constant	A mole of a substance ALWAYS contains the same number of molecules/ions/particles/atoms – this is called Avogadro's Constant: 1 mole = 6.02x10 ²³	1	Law of Conservation of Mass	No atoms can be created or destroyed in a chemical reaction so the total mass of reactants must equal the total mass of the products								
		$(35 \times 75) + (37 \times 25) \div 100 = 35.5 A_r$ of Chlorine			number of moles = $\frac{\text{number of particles}}{6.02 \times 10^{23}}$	2	Relative atomic mass (A _r)	Average mass of an element taking into account the mass & amount of each isotope it contains on a scale where								
2	formula or molecular	nolecular Example MgSO₄ contains:	 Calculate number of moles first = 11.5 ÷ 23 = 0.5 moles No. of moles (0.5) x 6.02 x 10²³ = 3.01 x 10²³ atoms 		th	the mass of a ¹² C atom is 12										
	4 x O: 4 x 16	1 x Mg: 1 x 24 = 24 1 x S: 1 x 32 = 32 4 x O: 4 x 16 = 64 So the relative formula mass = 24 + 32 + 64 = 120			Concentration is the amount of substance in a	3	Relative formula (or molecular)	The sum of the relative atomic masses of all the atoms shown in the formula								
	6 Concentrati on		specific volume of a solvent. It can be expressed as mass (in g) per unit volume, g/dm³ or g dm³ or moles in a specific volume of solvent, mol/dm³ or		mass (M _r)											
3	% mass of an element in a	$A_r \times \underline{\text{No. of atoms of that element}} \times 100$ $M_r \text{ of the compound}$ Example: Find the % mass of O in Na ₂ O $A_r \text{ of Na is 23; } A_r \text{ of O is 16}$				mol dm ⁻³ (Chemistry only). You can increase the concentration of a solution by adding more solute/solid or reducing the volume of solvent. Concentration (g/dm ³) = mass (g) volume (dm ³)	4	HT only: Mole	Measurement of the amount of substance / mass of a substance that contains 6.02 x 10 ²³ particles							
	compoun d	1 x O atom so 1 x16 = 16 M _r of Na ₂ O so (2 x 23) + (1 x 16) = 62 % mass = A _r ÷ M _r x 100 so 16 ÷ 62 x 100 = 26 %												Examples: What volume of water do I need to add to 25 g of common salt to get a concentration 0.65 g / dm ³ ? Volume = mass ÷ concentration so 25 ÷ 0.65 = 38.5 dm ³ Chemistry Only: Concentration = number of	5	HT only: Avogadro's constant
4	The mole				moles (mol/dm³) volume (dm³)			of carbon 12.								
& A _r / M _r		formula mass. So 32 g of sulphur is one mole of Sulphur Number of moles = $\frac{\text{mass in g (of an element or compound)}}{M_t \text{ (of the element or compound)}}$ Example: how many moles is 48 g of sulfur? A _r of S is 32 So mass in g divided by A _r is 48 ÷ 32 = 1.5 moles		Calculate the number of moles in a 0.55 dm^3 solution with a concentration of 0.35 mol/dm^3 No. of moles = concentration x volume $0.35 \times 0.55 = 0.19 \text{ moles}$	6	Uncertainty	The range of values within which the true value is expected to lie. So, for example, a volume of gas collected would be 10cm³ plus or minus 1cm³ so expressed as 10cm³ +/- 1cm³ so true value is anywhere between 9-11cm³									

Subject:	Science	(Chemi	istry
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Topic: Quantitative Chemistry

Year Group: 11



Co	alculatio	ns Types III	M	ass Conservat	ion in (Chemical Reactions	Ke	y Vocabula
5	Chemistry Only	The amount of product formed in a reaction compared to the maximum theoretical mass that could be produced as a percentage	1	The law of mass conservation in ter chemical reaction		The total number of each type of atom in a chemical reaction is the same before and after the reaction	7	Thermal decomposition
	Percentag e yield (%)	percentage yield = mass of product actually made maximum theoretical mass of product × 100 Example: 25g of salt was produced in a reaction	2	How can we show conservation of mo	ass in a	The total M_r of all the reactants will be equal to the total M_r of all the products	8	HT only:
		but the expected mass was 80g. What is the % yield? 25 ÷ 80 x 100 = 31.3%	3	Why might mass ay go up in a reaction		Due to one or more reactants being a gas found in air, that 'adds on' to the substance		reactant / reagent
6	Chemistry	A way of measuring what percentage of the	4	Why might mass at go down?	opear to	One of the products is a gas that escapes		
	Only mass of all the atoms in the reactants ends up in the desired product Atom economy mass of all the atoms in the reactants ends up in the desired product relative formula mass of desired product relative formula mass of all reactants × 100			f only : React	ing Mo	ass Calculations: the	9	HT only: Excess
	,	Example: The reaction below is used to produce calcium oxide (CaO). Calculate the atom economy of the reaction:	1	Example question	produced	uss of calcium chloride (CaCl ₂) is d when 3.7g of calcium hydroxide by reacts with an excess of hydrochloric 1) ?	10	Chemistry Only:
		$CaCO_3 \rightarrow CaO + CO_2$ M_r of $CaO = 40 + 16 = 56$ (desired product) M_r of $CaCO_3 = 100$ (Formula mass of all reactants) Therefore, $56 \div 100 \times 100 = 56\%$	2	Write out the balanced equation & identify what we know & don't know	Ca(OH) ₂	+ 2HCl> CaCl ₂ + 2H ₂ O ?	11	Chemistry Only:
			3	Work out the moles of what you know		+ 2HCl> CaCl ₂ + 2H ₂ O Remember mass ÷ Mr Mr of is 74		
	Chemistry Only	1 mole of a gas at room temperature (20°C) and pressure (1 atm) occupies a volume of 24dm³ Volume of gas = Mass of gas × 24	4	Check ratio in the balanced equation	So whate (Ca(OH) ₂	CaCl ₂ is formed from 1 unit of Ca(OH) ₂ ever moles of what you have worked out ₂) will make the same moles of what you work out (calcium chloride)	12	Chemistry only: Concordant
	Gas volumes	Volume of gas = $\frac{1}{M_1}$ of gas \times 24 Example: What volume will 88g of CO ₂ gas occupy at room temperature & pressure?	5	Calculate the number of moles of what you don't know		nake 0.05 moles of $Ca(OH)_2$ as the ratio compounds in the equation is 1:1	13	Chemistry only: End point
		Volume = mass ÷ M _r x 24 so 88 ÷ 44 = 2 x 24 = 48 dm ³	6	Calculate the mass of what you don't know	So in the mass in g Mass = M is 111 111 x 0.05	I_r x Moles M_r of $CaCl_2$		LIN POITI

Key Vocabulary					
7	Thermal decomposition	Reaction where heat causes a substance to break down into simpler substances			
8	HT only: Limiting reactant / reagent	The reactant in a reaction that determines the amount of products formed. Any other reagents are in excess & some of them will be left over, unreacted			
9	HT only: Excess	When the amount of a reactant is greater than the amount that can react			
10	Chemistry Only: Yield	The amount of product formed in a reaction			
11	Chemistry Only: Titration	A technique used to find the concentration of a solution using a solution of known concentration			
12	Chemistry only: Concordant	Two or more results from titration where the values are very close together (within 0.10cm³)			
13	Chemistry only: End point	The moment when the indicator changes colour in a titration showing that the moles of acid & alkali are equal			

Suk	Subject: Science Topic:				
Ma	Magnets				
1	Permanent magnets produce their own field				
2	Induced magnets become magnets when placed into another field, but lose this quickly when removed				
3	Materials that are magnetic: i) Iron ii) Steel iii) Nickel iv) Cobalt They are always attracted to a magnet				
4	A compass contains a small bar magnet that lines up with the Earth's magnetic field				

To show a magnetic field pattern

Scatter iron filings on a piece of paper and they will line

Use a compass to plot the direction of the field in different positions around

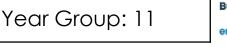
around a bar magnet:

ii)

up with the field.

the magnet

Topic: Magnetism and Electromagnetism Year G Fields Electromagnets





Fiel	ds	E
1	Field lines always point away from a North pole and towards a South Pole	2
2		
L	S N	3
	Field Lines Around a Bar Magnet	4
	, and the second	5
3	Where the field lines are closer together, the field is strongest i.e. at the poles	1
4	Designation of the state of the	2
	Groupers System State St	3
		4
5	Earth's magnetic field looks like a	\ <u></u>

bar magnet

1	Current flowing in a wire produces a magnetic field				
2	Strength of an electromagnet is affected by: i) Current ii) No. of turns of wire iii) Iron core				
3	Fleming's Left hand rule: • First Finger = Field • Second Finger = Current • Thumb = Thrust				
4	Force = Magnetic Flux Density x Current x Length of wire F = BIL				
5	A coil of wire in a magnetic field will start to rotate. This is how a motor works.				
Key	Vocabulary				
1	Magnetic field	A region where a magnetic material experiences a force			
2	Solenoid	A wire coiled around an iron core			
3	Magnetic Flux Density	How strong a magnetic field is			
4	Motor effect	The electromagnetic force on a wire			

Produced/made a

magnetic field or current

Induced

5

Titration Method (Chemistry only)

A student investigated the volume of hydrochloric acid that reacted with 25 cm³ potassium hydroxide. Describe a titration method the student could use in this investigation.

- Measure 25 cm³ potassium hydroxide using a pipette
- Place the potassium hydroxide into a conical flask
- Fill the burette with hydrochloric acid and record the starting volume
- Add a suitable indicator to the conical flask, e.g.,
 Phenolphthalein
- Place a white tile under flask
- Add the hydrochloric acid until the indicator changes colour
- Add acid slowly and dropwise whilst at the same time swirling the flask
- Phenolphthalein will change from pink to colourless permanently at the endpoint
- Record the volume of hydrochloric acid added
- The tire value is the difference between the initial and final burette reading
- Repeat until you get 2 concordant titres/within 0.1 cm³ of each other

Titration Calculation – the steps (Chemistry only)

In a different titration, a student used 25.00 cm³ of potassium hydroxide, KOH. This volume reacted with exactly 26.00 cm³ of 0.100 mol dm⁻³ sulfuric acid. The equation for the reaction is: $2KOH + H_2SO_4 \rightarrow K_2SO_4 + 2H_2O$. What is the concentration of the potassium hydroxide solution in mol dm⁻³?

- Calculate the moles of the reactant that you have the volume and concentration for (in this case it is the sulfuric acid). Remember, moles = volume (dm³) x concentration (mol dm⁻³) (26.00 / 1000) x 0.100 = 0.00260 mol
- Now determine the moles of potassium hydroxide you have. Look at the equation. You can see you have a 2:1 ratio. This means you have double the moles of KOH.

 2 x 0.00260 = 0.0052 mol
- Now you can work out the concentration of KOH using concentration (mol dm⁻³) = moles / volume (dm³) 0.0052 x (25/1000) = 0.208 mol dm⁻³