Beckfoot School And Expert Learners Knowledgeable enjoylearnsucceed Year 2023/24 Jan - Feb

Name:	•••••	•••••	•••••
Tutor group:	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

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#### What should you be working on each week?

#### 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

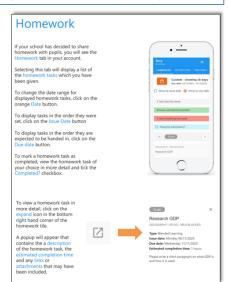
#### Independent Learning: Revise Like a Beckfooter

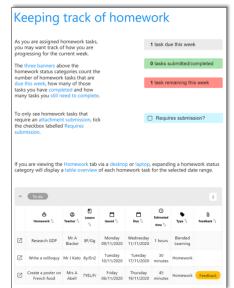
- You should complete 1 task per day, 5 days a week
- The tasks will be set on Class Charts to help you keep track
- You can choose the subject/topic you want to work on
- Your tutor will check your ILB at regular intervals
- You will be rewarded for going above and beyond expectations

#### **Homework Instructions**

- 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.
- In the next few pages, you will find instructions for how to access Class Charts and how to complete your homework assignments in each of your subjects.









# omework ctions

Scan the QR codes below to find instructions for each subject's homework and access to independent learning resources.









**Maths** 

English

Science

MFL



SCAN ME

**Humanities** 

D&T

Perf. Arts



SCAN ME



SCAN ME



Art



Music



SCAN ME

SCAN ME

Computing

Knowledgeable Expert Learners

SCAN ME

SCAN ME

Communicators Confident

## My Learning How to access My Learning Resources Resources is an online space where you can find all

This will help you to learn independently and catch up any missed our lesson PowerPoints, knowledge organisers, quizzes and more.

for all your subjects.

Seneca learning is a free online platform that will help you revise

How to access Seneca















subject you want to work on Select the









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

All the resources you need will be here

Select the relevant half term.



Click 'Log In' at the top right hand corner.

g.com/en-GB

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Enter your school email and password.

Select 'Continue

with Microsoff



Select the course(s) you want to work on.



## Independent Learning at KS4: Revise E (a Ω Beckfooter

Independent Learning at KS4 is all about getting you ready for your exams at the end of Y11.

tells us that: memory works. Scientific research into memory and learning To be successful at exams, it is helpful to understand how

- Memories weaken over time
- We forget the most soon after learning
- Stress makes it harder to remember things

knowledge? the end. So how can you ensure that you don't forget all that and you will have to remember that material in your exams at You will learn lots of new information over your GCSE years.

- Revise regularly and repeatedly

  Revise using strategies that are proven to be effective

  Don't leave revision until the last few weeks before exams

learning habits that will ensure you can: revision. This will help you develop really strong independent With all this in mind, we have designed a system of structured

a) learn more effectively and

b) reduce your stress at exam time

## What we expect from you:

- 5 revision tasks per week using the specified revise like a Beckfooter strategy (on Class Charts)
- You choose the subjects we set the tasks
- Bring your ILB to school every day

# What you can expect from us:

- Support with your revision through tutor and lessons
- Revision tasks on Class Charts to help you stay on track
- Your ILB will be checked regularly by your tutor

#### Typical Forgetting Curve for Newly Learned Information Retention 100% 80% 60% 70% %06 First learned ω Days ٠ s. φ.

## 'Revise Like a Beckfooter' Our evidence-informed strategies:

- 2 : Self-quizzing
- Flash Cards
- Mind-Maps

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Brain Dumps

# Read Like a Beckfooter

## Vocabulary

Do you understand the words of the text?

Highlight any you're unsure of then ask yourself these questions:

1.Can you work out the word from its context? What does it seem like it means?

- Does it look like any other words you know? Could it mean something similar?
- If you can't figure it out yourself, look the word up in dictionary or online 5

# Comprehension

This means understanding a text. There are two things to think about:

- Do you understand what means literally?
- Can you see what's implied?

To achieve these things:

- Slow down your reading many people miss key parts texts because they go too fast 5° ı
- took carefully at punctuation, which is designed to help you take pauses in the right places
- Ask a husted adult to read the text to/with you

Remember: not implied meaning. every g

In English there will be there will be very time Science and Maths texts. 5 lols, but many

# Summarising

A good summary expresses what really matters about a text as briefly as possible. If you can summarise a text, you must have understood it.

Follow these steps

- 2.Summarise the text in twenty Summarise the text in five words Words
- Summarise the text in fifty words

Each time you will have a more information, but you have included everything.

By following the process, y decided what matters and doesn't. you've d what

# Beckfooter

As Knowledgeable and Expert Learners, we are great at being reflective. We ask ourselves lots of questions before, during and after a task, not just at the end! This helps us to make good choices about what we need to do, and the best way to do it. It also helps us to stay motivated, even when things get tough. Finally, it helps to make sure we always complete learning tasks to the very best of our ability.

#### Before a task, yourself: ask

### Comprehension

What do I understand about What is this task about? 

What am I being asked to do?

### Connection

What do I already know about this?

Have I seen anything like this before?

How is this similar or different to other tasks I have done?

Do I know any strategies that would be appropriate for this

Which strategy would be most helpful to me now? Have I used this strategy

Was it successful?

Strategy

task§

befores

How can I ensure I am successful this time?

#### During a task, yourself: ask

Reflection (during the task)

make in this kind of task? What mistakes do I often How can I avoid making How is this going? those mistakes?

What am I finding difficult right now? What am I doing well?

How do I feel about the How do I know?

What can I do to improve my motivation level right now? Am I motivated to complete this task to a high standard?

#### After a task, yourself: QSK

Does my finished work look Reflection (after the task) successfula

Does it make sense? How do I know?

Is this work better than I have different way?

Could I have done this a

How did my motivation level done in the past? How do I know₹

affect my performance in the task?

experience during the task? What emotions did I Whys

a different way in the future? Explain How can I motivate myself in

08

# Self-quizzing



Review and create



2

Cover and answer

reflect



4 Self mark &



Next



Next time

Identify knowledge/content you wish to cover.

Spend around 5-10 minutes reviewing content (knowledge organisers/class notes/text book)

Create x10 questions on the content (If your teacher has not provided you with questions)

sentences.

Cover up your knowledge and answer the questions from memory.

Take your time and where possible answer in full

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

Revisit the areas where there were gaps in knowledge, and include these same questions next time.

Ensure that you complete all subjects and all topics—not just the subjects you enjoy the most Practice makes perfect! of find easiest.

## Use this table to help you keep track of the knowledge organisers you have half term. Blank versions follow every organiser. self-quizzed on and checked this

Week 1	Which Subject/Topic?	Week 2	Which Subject/Topic?
Day 1		Day 1	
Day 2		Day 2	
Day 3		Day 3	
Day 4		Day 4	
Day 5		Day 5	6

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Pockfoo:

Subject: Maths Term: Half term 4

Year Group: I IF



Algebra: Formula							
		Substitute numbers into a formula	Eg. Substitute numbers in the formula for the area of trapezium: $\frac{(a+b)h}{2} = \frac{(3+7) \times 6}{2}$				
	2	Rearranging formula	Make a the s	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	ζe	y Vocabulary					
	I	Expression	Numbers, syn operators (sug grouped toge equals sign	ch as + and ×)			
	2	Equation	4x+7=5 term equal.	ns that's are			
	3	Formula	Has an = and terms. It can I area, volume,	help work out			

Ν	umber: Indic	ces							
-	Squared numbers	The second secon	× 1 = 1 × 2 = 4 × 3 = 9						
2	Cubed numbers	$1^{3} = 1 \times 1 \times 1 = 1$ $2^{3} = 2 \times 2 \times 2 = 8$ $3^{3} = 3 \times 3 \times 3 = 27$							
2	Index laws	base $a^m \times a^n = a^{m+n}$ $a^m \times a^n = a^{m-n}$ $a^m \cdot a^n = a^{m-n}$ $(a^m)^n = a^{mn}$							
3	Standard form	Ordinary Number 29 350 0.3 0.09	Standard Form  2.9 x 10 <sup>1</sup> 3.50 x 10 <sup>2</sup> 3 x 10 <sup>-1</sup> 9 x 10 <sup>-2</sup>						

G	eometry:Area an	d volume					
_	Covert squared units	$3cm^2 to m^2$ Cm to m = ÷100 Square this conversion $100^2$ $3 \div 100^2 = 0.0003m^2$					
2	Convert cubed units	$3m^3 to cm^3$ M to cm = x100 Square this conversion $100^2$ $3 \times 100^2 = 30'000cm^2$					
3	Vol of cube/cuboid Vol of prisms	Volume= length x width x height  Vol= Cross section area x length					
4	Surface area of prisms (work out the area of each side)	Side side					

_	Add and subtract fractions	Make sure the denominators are the same before adding / subtracting the numerators
2	Multiply and divide fractions	Multiplying: multiply numerators togeth er then multiply the denominators together Dividing: multiply by the reciprocal

Z	Number: Decimals								
1	Round to decimal places (dp)	3.248 rounded to 1 d.p.  3.248 3.248 → 3.2  11th dp							
2	Round to significant figures (sf)	3268 rounded to 1 sig. fig.  3268 3268 → 3000  1 st							

4
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Reckfoo

Subject: Maths Term: Half term 4

Year Group: I I F



	весктоот											
A	Algebra: Formu	la		Number: Indices				Geometry: Area and volume				
I	Substitute numbers into a	Eg. Substitute numbers into the formula for the area of a trapezium:	1	I	Squared numbers					Covert units	squared	$3 \div 100^2 = 0.0003m^2$
	formula			2	Cubed numbers				2	Conver	t cubed units	$\times 100^2 = 30'000cm^2$
		$\frac{(a+b)h}{2} = \frac{(3+7)\times 6}{2}$							3	Vol of c	ube/cuboid	
		= 30		2	Index laws					Vol of p	risms	
2	Rearranging formula	Make a the subject of the formula								prisms (	area of (work out	
				3	Standard form					the area side)	of each	
Кe	y Vocabulary							L				
ī	Expression									N	umber: Decin	nals
2	Equation			_	dd and subtract fra	ations				$\neg \square$	Round to	
3	Formula										decimal places (dp)	
	'		2	M	ultiply and divide frac	tions				2	Round to significant figures (sf)	



Subject: Maths

Term: HT4 January – Part I

Year Group: 11 Higher



A	lgebra Simultane	ous Equations, Quadratics Equat	s Equations, Quadratics Equations & Formulae					
	Solve simultaneous equations Via elimination	Use the elimination method to solve the given simultaneous equations $5x + y = 20  (x5)  \text{substitute}  x = 3$ $4x + 5y = 37  \text{into}  5x + y = 20$ $5x + y = 20  \text{solve}  x = 3$ $5x + 5y = 100  5x + y = 20$ $4x + 5y = 37  15 + y = 20$ $21x = 63  \text{(19)}  y = 5  \text{(19)}$ $x = 3  \text{(19)}  x = 3  \text{(19)}$	4	Factorise & solve	2 numbers that X to give 12 and + to give 7 $x^{2} + 7x + 12$ $(x + 3)(x + 4)$	8	Solve via quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $Eg 2x^2 + 11x + 6 = 0 \implies a = 2 \implies b = 11 \implies c = 6$ $x = \frac{-11 \pm \sqrt{11^2 - 4 \times 2 \times 6}}{2 \times 2} \qquad x = \frac{-11 \pm \sqrt{73}}{4}$ $x = -0.614 \text{ or } -4.886 \text{ (3dp)}$ Complete the square $Turning point (9, -1)$ $x^3 - 18x + 80 = 0$	10. Tangent to circle equation  To find equation we use $y=mx+c$ $x^2+y^2=40$ at $(2,6)^2$ Gradient of Radius = $\frac{6}{2}=3$ Gradient of Tangent = $-\frac{1}{3}$
2	Solve simultaneous equations Via substitution	① $3x + 2y = 21$ ② $y = x + 3$ A) Substitute y and solve to find x. ② $3x + 2(x + 3) = 21$ 3x + (2x + 6) = 21 5x + 6 = 21 5x = 15 x = 3 B) Input x to find y. ② $y = (3) + 3$ y = 6 1) $y = x^2 - x - 6$ 2) $y = 6 - 2x$ $x^2 - x - 6 = 6 - 2x$ $x^2 + x - 6 = 6$ $x^2 + x - 12 = 0$ $x^3 - 3 - 0 \text{ or } x + 4 = 0$ x = 3  or  x - 4 Substitue both values of x into equation (1 or 2) and find both possible values of y. y = 0  or  y = 14 (3,0) $(-4,14)$	5	Factorise & solve a difference of 2 squares	$a^{2}-b^{2} = (a+b)(a-b)$ $x^{2}-9 = (x+3)(x-3)$ $x = -3  x = 3$	9	$(x-9)^2 - (-9)^2 + 80 = 0$ $(x-9)^2 - 81 + 80 = 0$ $(x-9)^2 - 1 = 0$ $(x-9)^2 = 1$ $x-9 = \pm \sqrt{1}$ x = -1 + 9 $x = 8x = +1 + 9$ $x = 10Gradient of tangent touching$	M = $-\frac{1}{3}$ & sub (2,6) 6 = $-\frac{1}{3}$ (2) + c 6 + $\frac{2}{3}$ = c c = 6.67 $y = \frac{1}{3}x + 6.67$ II. Rearrange where a variable appears more
3	Solve quadratics via graphing The x-intercepts of a graph are the solutions of the equation. A quadratic equation can have one of three types of solutions:	Two Solutions  One Solution  One Solution  One Solution	6 3×	Factorise & solve complex quadratics	$3 \times 10 = 30$ Factors of 30 that + or - to make 11 are: $5 + 6 = 11$ $3 \times + (x + 5x + 10)$ $3 \times (x+2) + 5(x+2)$ $(3 \times + 5) (x+2)$ so $x = -5/3$ or $x = -2$		Find the gradient of $y = x^2 - 3x - 2$ at the point $x = -1$ (-1.5,4)  Draw a tangent at the point $x = -1$ Select 2 points on your tangent line $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3.5 - 4}{0 - 1.5}$ $= \frac{-7.5}{1.5} = -5$	than o 2(2p + m) = 3 - 5m 4p + 2m = 3 - 5m 4p + 2m + 5m = 3 2m + 5m = 3 - 4p 7m = 3 - 4p 7



Subject: Maths Term: HT4 January – Part I Year Group: I I Higher

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A	algebra Simultaneous Equations, Quadratics Eq	uations	s & Formulae			
Ī	Solve simultaneous equations  Via elimination	4	Factorise & solve	7	Solve via quadratic formula	10. Tangent to circle equation
				$\  \ $	Complete the square Turning point (9, -1)	
2	Solve simultaneous equations  Via substitution	5	Factorise & solve a difference of 2 squares	9	Gradient of tangent touching	II. Rearrange where a variable appears more
3	Solve quadratics via graphing The x-intercepts of a graph are the solutions of the equation. A quadratic equation can have one of three types of solutions:	3>	Factorise & solve complex quadratics		curve	than once

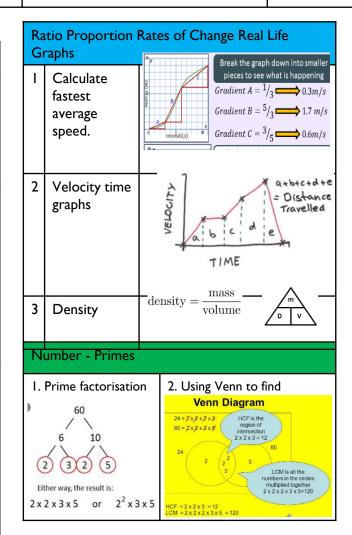


Subject: Maths Term: HT4 January – Part 2

Year Group: 11 Higher



St	atistics – Data Rep	resentation
I	Tally Chart Information you are collecting listed. Column for tallies. Column for frequency.	Overlink   Tally   Pressency
2	<ul> <li>Frequency on y-axis.</li> <li>Information you are collecting on the x-axis.</li> <li>Bars same width.</li> <li>Equal gaps between bars.</li> <li>Title explaining what the chart shows.</li> </ul>	Eye colours in a Year
3	Pie Chart  Divided into sectors which shows the relative size of the data.  Needs a key or labels to clearly show what each sector represents.  Sectors calculated using parts of 360°.	



K	ey Vocabulary	
Ι	Velocity	Is speed with direction.
2	Tangent	A straight line that touches a circle.
3	Roots or solutions	When we draw a quadratic equation, where the curve cuts through the x-axis are called the roots or solutions.
4	Gradient	Rate of change, so it could be the rate of water flow over time, or distance travelled over time.
5	Bisect	To mathematically accurately cut something in half e.g., an angle,
6	Prime factorisation	To break a number down into the primes we can multiply to make the original number.
7	Coefficient	This is the number in front for example the co-efficient of this term $3x^2$ is 3.



Subject: Maths Term: HT4 January – Part 2

Year Group: 11 Higher



St	atistics – Data Rep	presentation
I	Tally Chart Information you are collecting listed. Column for tallies. Column for frequency.	
2	Bar Chart  Frequency on y-axis.  Information you are collecting on the x-axis.  Bars same width.  Equal gaps between bars.  Title explaining what the chart shows.	Eye colours in a Year 8 Class
3	Pie Chart  Divided into sectors which shows the relative size of the data.  Needs a key or labels to clearly show what each sector represents.  Sectors calculated using parts of 360°.	

	Ratio Proportion Rates of Change Real Life Graphs					
I	Calculate fastest average speed.					
2	Velocity time graphs					
3	Density					
N	umber - Primes					
Eit	Prime factorisation 60 6 10 2 3 2 5 5 5 5 5 5 5 5 6 5 2 2 x 3 x 5 or 2 2 x 3		2. Using Venn to find HCF/LCM			

K	ey Vocabulary	
ı	Velocity	
2	Tangent	
3	Roots or solutions	
4	Gradient	
5	Bisect	
6	Prime factorisation	
7	Coefficient	



#### English Language Paper I

Explorations in Creative Reading and Writing



	Que	stion Summary	Useful Approaches to Creative Writing (Q5)				
Q.	Skill(s)	Marks, timings and question	_				
	assessed	stems	ı	Use an unreliable	Give your reader reason to doubt the accuracy of the story		
'	Retrieval and inference	4 marks (10 minutes inc. reading source)		narrator	told e.g. write as someone old or young		
	iniciciec	"List four things"	2	Choose an unexpected perspective	Obvious isn't always best. Find interesting perspectives!		
2	Language	8 marks (15 minutes)	_				
		"How does the writer use language here to" (2-3 PEA)	3	Give your characters inner conflict	A difficult decision or social situation is just as interesting as a fight!		
3	Structure	8 marks (15 minutes)	4	Use a cyclical structure	Can really help contain a story and give a powerful ending		
		"How has the writer structured the text to interest you as a reader?" (3 PEA)	5	Make your characters vulnerable	Weaknesses make your characters interesting!		
4	Evaluation	20 marks (20 minutes)	6	Avoid using dialogue	Summarise conversations rather than write every word		
		"Statement on an aspect of the text."	7	Start at the	Confuse your reader to start		
		To what extent do you agree? (3 PEA)		end (and then flash back)	with, then clear up the confusion bit by bit		
5	Creative Writing	40 marks 24 marks for content and organisation	8	Use a short	Covering a single hour is usually		
		16 marks for technical accuracy (45 minutes)		timeline	better than a lifetime		
		Choice between writing based on a visual prompt or a written one.	9	Show, don't tell	"Tears streamed down her cheeks" is better than "she was crying"		

	Key	y Language Ter	mino	ology (Q2 and Q	24)
-	Atmosphere	The feeling associated with a piece of writing e.g. dark or oppressive	6	Connotation	What a word or phrase implies or suggests
2	Figurative language	Any language not meant literally e.g. metaphor and simile	7	Hyperbole	Strong exaggeration, not meant to be taken literally
3	Imagery	Visually descriptive language	8	Juxtaposition	Placing two things together to highlight their contrast
4	Lexis	Word choices – words chosen with specific effects in mind	9	Narrative Perspective	The viewpoint from which a text is written
5	Semantic field	Words and phrases with related meanings	10	Short sentences	Used for dramatic impact, often in moments or action
	K	ey Structural To	ermi	inology (Q3 and	Q4)
_	Ambiguity	Intentional withholding of information to keep a reader guessing	6	Analepsis	Flashback – moving to an earlier point in a narrative's chronology
2	Climax	The peak of tension within a story – it's most thrilling point	7	Cyclical	A structure that returns to where it started
3	Focus shift	Changes of location, character or subject as a story progresses	8	Foreshadowing	Hints of later events used to build tension and guide readers
4	Fragment	An incomplete sentence, usually missing a key part	9	Listing	Numerous similar items are ideas one after the other
5	Motif	A repeated image, words, phrase or idea	10	Repetition	A word or phrase used multiple times throughout



#### English Language Paper I

Explorations in Creative Reading and Writing



	Question Summary		Lisoful Approaches to Creative			Key Language Terminalagy (O2 and O4)				
	Que	estion Summary		seful Approaches to Creative Writing (Q5)		Key Language Terminology (Q2 and Q4)				
Q.	Skill(s)	Marks, timings and question				Atmosphere		6	Connotation	
	assessed	stems	_	Use an unreliable						
1	Retrieval			narrator						
	and inference				2	Figurative language		7	Hyperbole	
			2	Choose an unexpected						
2	1		_	perspective	3	Imagery		8	Juxtaposition	
4	Language		3	Give your						
				characters inner	4	Lexis		9	Narrative	
				conflict					Perspective	
_			4	Use a	_					
3	Structure			cyclical structure	5	Semantic field		10	Short sentences	
				structure						
			5	Make your characters		K	ey Structural T	erm	inology (Q3 and	l Q4)
				vulnerable		Ambiguity		6	Analepsis	
4	Evaluation		6	Avoid using	<b>∃</b>  '	Ambiguity			Allalepsis	
				dialogue						
			7	Start at the	_ 2	Climax		7	Cyclical	
			'	end (and						
				then flash back)	3	Focus shift		8	Foreshadowing	
5	Creative				<b>∐</b>	T ocus sime			T or estitutioning	
	Writing		8	Use a short timeline						
					4	Fragment		9	Listing	
			9	Show, don't						
				tell	5	Motif		10	Repetition	



#### A Christmas Carol



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

	Characters				
I	Scrooge	The protagonist, a mean old loner who hates Christmas.	6	Bob Cratchit	Scrooge's hardworking and unpaid clerk.
2	Marley	Scrooge's deceased business partner who appears as a ghost to warn Scrooge to change his ways.	7	Tiny Tim	Bob Cratchit's ill and vulnerable son.
3	Ghost of Christmas Past	A shape changing spirit that represents memory and has light/a flame at the top of its head.	8	Fred	Scrooge's patient, jovial nephew. The son of his beloved sister, Fan.
4	Ghost of Christmas Present	A jolly spirit (resembles Father Christmas) that represents generosity and Christmas spirit.	9	Fezziwig	Scrooge's generous former employer.
5	Ghost of Christmas Yet to Come	A silent, sinister spirit in a black, hooded cloak who represents death.	10	Belle	Scrooge's former fiancée who breaks off their engagement because he valued money more than their relationship.

		Themes				
I	Greed and selfishness	Characters such as Scrooge represent the middle classes who sought to hoard rather than share their wealth.				
2	Poverty	Scrooge despises the poor and thinks they are lazy at first. At the end, he realizes he can share his wealth with the poor.				
3	Transformatio n	The spirits show Scrooge scenes that prompt his transformation. At the end of the novella, Scrooge's transformation into a kinder human being is complete				
4 Christmas		Scrooge learns the true meaning of Christmas is to spend time with your family and loved ones.				
5	Social responsibility	Ignorance and Want remind Scrooge that turning a blind eye to the plight of the poor creates desperate				
		Context				
I	Charles Dickens	Born in 1812 to a middle class family. His dad was imprisoned for debt leading to poverty for the family. Dickens began working difficult jobs at a young age.				
		in 1834, the Poor Amendment reduced the amount of help available to the poor, forcing them to seek help from workhouses. Conditions were incredibly harsh in the Victorian era.				
3	Christmas	Christmas was fairly a low key celebration. During Queen Victoria's reign, workers were given two days holiday for Christmas. Turkey was only eaten by the rich, goose was a cheaper option.				

		ne van	ded money more than their relationship.
		K	Key Vocabulary
1	1	Simile	Comparing two things using 'like' or 'as', e.g. "hard and sharp as a flint"
	2	Motif	Repeated image or symbol, e.g. light being used several times in the novella
	4	Allegory	Characters/events represent ideas about religion, morals or politics.
	5	Novella	A short novel or long short story.
	6	Resolution	The Point where conflict is solved, e.g. Scrooge's redemption.
	7	Redemptio n	Being saved from sin, error or evil, e.g. Scrooge realising he needs to change his miserly ways and then does in stave 5.



A Christmas Carol



		Plot Summary		Characters						
1	Stave I	-	I	Scrooge		6	Bob Cratchit			
			2	Marley		7	Tiny Tim			
			3	Ghost of Christmas Past		8	Fred			
2	Stave 2		4	Ghost of Christmas Present		9	Fezziwig			
			5	Ghost of Christmas Yet to Come		10	Belle			
					Themes		К	Key Vocabulary		
_			ı	Greed and selfishness		1	Simile			
3	Stave 3		2	Poverty						
			3	Transformation		2	Motif			
			4	Christmas						
4	Stave 4		5	Social responsibility		4	Allegory			
					Context	5	Novella			
			I	Charles Dickens						
5	Stave 5		2	Poverty		6	Resolution			
			3	Christmas		7	Redemptio n			
				•			•			



#### Frankenstein



		Plot Summary
I	Letters I-4 Walton's POV	The novel begins with a series of letters from Walton to his sister, Margaret. He is captain of the ship in a voyage to the north Pole. Walton and his men rescue Victor and help him recuperate on the ship. He eventually tells Walton his story.
2	Ch. I-2 Victor's POV	Victor begins his narration and tells of his childhood growing up in Geneva with his doting parents. He also shares that Elizabeth was adopted. As a teenager, Victor was fascinated by the mysteries of Science.
3	Ch. 3-5 Victor's POV	Victor's mother dies from Scarlet fever after catching it whilst nursing Elizabeth. Victor leaves to attend university in Ingolstadt and becomes obsessed with anatomy. He decides to animate a creature and is horrified when it is brought to life. He abandons the creature and falls ill.
4	Ch. 6-8 Victor's POV	Victor is nursed back to health by his friend, Henry Clerval. He receives a letter from his father informing him that William has been murdered. Returning to Geneva, Victor sees the monster and knows who is to blame, however Justine is executed for William's murder.
5	Ch. 9-10 Victor's POV	Victor contemplates suicide but a trip to Belrive, planned by his father, cheers him up slightly. When he feels negative again, he decides to climb Montonvert to clear his head and sees the monster who shares his story.
6	Ch. II- I2 Creature's POV	The monster describes the confusion in its first moments of life. He then describes people fleeing whenever he tried to approach them, so he decided to stay away from them. He developed skills and began observing the De Lacey family to educate himself.
7	Ch. 13- 14 Creature's POV	Winter turns into Spring and the creature has now learnt language. He notices that the family seem unhappy, until Safie arrives. He learns that the people are called Felix, Agatha and De Lacey and they used to be affluent.
8	Ch. 15- 17 Creature's POV	The creature finds books and learns to read and also learns how he was created. He hopes to befriend the cottagers, starting with the old, blind De Lacey, however Felix drives him away. When the family have left, the creature burns down their cottage and leaves for Geneva. He confesses that he killed William and framed Justine. He then implores Victor to make him a mate and Victor agrees.
9	Ch. 18- 20 Victor's POV	Victor visits England with Clerval, but he leaves Clerval in Scotland so that he can work on the female creature alone in the Orkney Islands. Mid-way, he destroys it in front of the monster. The monster promises revenge on Victor's wedding night. Victor then gets rid of the remains in the sea. When he lands in a town, he is suspected of a murder.
10	Ch. 21- 23 Victor's POV	Victor is taken to the body, which is Clerval's . He collapses and falls ill. When he awakens, he is found innocent. Elizabeth and Victor marry, however, he remembers the creature's threat and plans to battle him. On the wedding night, Elizabeth is killed by the creature and Alphonse dies from shock. Victor vows revenge on the creature.
Ξ	Ch. 24 Victor's POV- Walton in Continuation Walton's POV	Victor relentlessly tracks down the creature through ice and snow. He is found by Walton, to whom he warns not to make the same mistakes as him and Walton decides to call the voyage off. Victor asks Walton to continue his mission and then dies. Walton then sees the creature weeping over Victor's body. He is tormented and states he has no purpose left, now that his creator is dead. He leaves into the darkness.

1			Chai	act	ers				
1	ı	Robert Walton	A young, ambitious English man leading an expedition to the North Pole.	6	Justine Moritz	Frankenstein family servant, who is more like family. She was framed by the creature and executed for William's murder.			
$\frac{1}{1}$	2	Victor Frankenstei n	7	De Laceys	Parisian good.	's turned rural farmers. They are poor, but kind, loving and			
	3	Alphonse Frankenstei n	Victor's father. An example of kindness and selflessness.	8	8 The Creature A product of Victor's scientific experiment that went wrong. He rejected by everyone and longs for acceptance.				
	4	Caroline Frankenstei n	Victor's loving mother. A paradigm of motherly concern and generosity. Her death provides the catalyst for Victor to transcend death.	9	9 Henry Clerval Victor's best friend. He is an idealised character. Henry takes care Victor and is also another one of the creature's victims.				
ı	-	William	Victor's youngest brother who was murdered by the creature	10	Flizabeth	Victor's	s adopted sister and bride. She is a passive and idealised		
$\frac{1}{1}$			Themes				Ley Vocabulary		
	ı	Ambition/ obsession	Both Victor and Walton aim for major discoveries/achievements. Victor's tale is a warning to not be overly ambitious.	ī	Epistolary Novel		Novel written in the form of letters which allows the writer to establish the narrative POV clearly.		
	2	Family/Love	Family is important to Victor and the Creature. The Creature longs for family/love but is always rejected.				,		
$\left  {} \right $	3	Death	Several people die in the novel and Victor's mother's death is what spurred Victor on to transgress the boundaries of life and death.	2	Frame Narrative		A narrative within a narrative. This allows us to see events from different perspectives.		
	4	Revenge	Both Victor and the creature feel wronged and seek revenge even at the cost of their own safety, health and happiness.	4	Allegory		Characters/events represent ideas about religion, morals or politics.		
	5	Man vs God	Both Victor and Walton talk of conquering nature with science which emphasizes there risk-taking and ambitious natures.				inorais of politics.		
$\frac{1}{1}$			Context	5	Foreshado	wing	When something gives the reader a hint about what will take place in the future.		
	Ι	Mary Shelley	Born in 1797, most famous for Frankenstein. Shelley experienced a great deal of death in her own life: her				what will take place in the luttile.		
1			mother, her 3 children and her husband (Percy Bysshe Shelley).	6	Transgres	sion	An act that goes against a law, rule or code of conduct; an offence.		
	2	Science	Many advancements in science had been made, biologists were finding out a great deal about the human body and						
ı		its capabilities. Science was breaking boundaries.		7	Age of		An intellectual and philosophical movement that		
	3 Religion Parts of Europe were heavily religious. Therefore, occurrences that could not be explained were viewed as an act of God or from another supernatural force.			Enlightenr	ment	dominated the world of ideas in Europe during the 17 <sup>th</sup> -19 <sup>th</sup> Century.			



Frankenstein



		Plot Summary	Characters							
I	Letters I-4		I	Robert Walton		6	Justine Moritz			
2	Walton's POV Ch. 1-2		2	Victor Frankenstei n		7	De Laceys			
2	Victor's POV		3	Alphonse Frankenstei		8	The Creature			
3	Ch. 3-5 Victor's POV		4	n Caroline		9	Henry Clerval			
4	Ch. 6-8			Frankenstei n		Ш				
	Victor's POV		5	William		لمبل	Flizabeth			
5	Ch. 9-10				Themes		K	ey Vocabulary		
	Victor's POV		ı	Ambition/ obsession		I	Epistolary Novel			
6	Ch. II- I2 Creature's		2	Family/Love						
7	POV Ch. 13-		3	Death		2	Frame Narrative			
	I 4 Creature's POV		4	Revenge		4	Allegory			
8	Ch. 15-		5	Man vs God		7	7 5 7			
	Creature's POV									
9	Ch. 18-				Context	5	Foreshadowing -			
	20 Victor's POV		ı	Mary Shelley						
10	Ch. 21- 23		2	Science		6	Transgression			
	Victor's POV									
П	Ch. 24 Victor's POV- Walton in Continuation Walton's POV		3	Religion		7	Age of Enlightenment			



#### Romeo and Juliet

#### Year Group: 10 & 11

Lady

Capulet

Nurse

Tybalt



Juliet's mother. Cold and distant for most of the play,

she expects Juliet to follow in her own footsteps. Juliet's nursemaid, they have a close relationship. She

acts as confidante and messenger for Romeo and

Juliet's ruthless, hot-tempered and vengeful cousin.

Has a deep, violent hatred of the Montagues.

		Plot Summary
I	Prologue	Sets up main themes of the play. Provides an overview of the action.
2	Act I	Montagues and Capulets brawl. Romeo depressed about Rosaline. Paris wants to marry Capulet's young daughter Juliet. Juliet's mother and Nurse encourage Juliet to marry Paris. Romeo attends Capulet party, sees Juliet and falls in love.
3	Act 2	Balcony Scene – R&J decide to get married. Romeo asks Friar Lawrence to conduct ceremony. Friar Lawrence hopes marriage will end feud. Nurse visits Romeo to check his commitment. Friar Lawrence marries R&J.
4	Act 3	Romeo refuses to fight Tybalt.  Mercutio killed by Tybalt and Tybalt by Romeo. Romeo is banished. Juliet told she is to be married to Paris.  Capulet flies into a rage after Juliet refuses.
5	Act 4	Juliet asks Friar Lawrence for help. Friar Lawrence supplies a potion and a plan. Juliet agrees to marry Paris. Wedding plans are underway but Juliet found 'dead' by the Nurse.
6	Act 5	Romeo thinks Juliet is dead. He returns to Verona with a poison. Friar Lawrence discovers Romeo did not get his letter. Romeo kills Paris at Juliet's tomb, takes poison and dies. Juliet wakes and finds Romeo, stabs herself. The feud is over.

			Cha	racte	rs						
1	I	Romeo Montague	Initially a typical Petrarchan lover, his love for Juliet is incredibly romantic, impulsive and passionate.	6	L						
1	2	2 Juliet Young and innocent, not yet 14.Her love for Romeo matures her and makes her bolder in her defiance.									
	3	Lord Capulet	Juliet's father. Shows concern for Juliet's welfare, but can be aggressive and tyrannical when disobeyed.	8	Т						
	4	Mercutio	A relative of the Prince and a high-ranking man. Mixes well with both families and is Romeo's loyal best friend.	9	В						
1	5	Paris	A rich and highly-regarded young man, kinsman to the	10	F						
			Themes	_							
	ı	Love	Romantic, sexual, superficial and platonic forms of love are present in the play.	ı	Fo						
$\frac{1}{1}$	2	2	Н								
	3	Fate versus Free Will	This is the idea of an inevitable destiny that cannot be escaped.		''						
	4	Honour and loyalty	The importance of family & friendship.	4	S						
1	5	Masculinit	The play explores traditional views of masculinity								
			Context	5	Ь						
	I	Queen Elizabeth	Reigned from 1558-1603. Her reign saw England prosper and become a major player in Europe. She chose not to marry, defying the expectations of a patriarchal society.		Îr						
	2	Astrology	In both 14th-century Italy and Elizabethan England stars linked to fate and fortune, were believed to predict and influence the course of human events.	6	Ju						
	3	The role of women	Society was 'patriarchal' (led by men). Women were said to be lower than men in The Great Chain of Being. Women were expected to marry, to bear children and be subservient to men.	7	M						

	9	Benvolio	Cares about his cousin Romeo and tries to keep peace between the families.							
	10	Friar	A caring, trusted, kind man of the Church who is							
	Key Vocabulary									
I		Foreshadowing	R&J's deaths are hinted at throughout the play, creating suspense for the audience.							
2		Hamartia	Both protagonists can be considered to be tragic heroes: high status, sympathetic characters whose fatal flaws (their impulsiveness) contribute to their inevitable deaths							
	4	Sonnet	A poem of 14 lines with a strict rhyme scheme, usually associated with love and romance. R&J speak in a shared sonnet when they first meet.							
	5	Dramatic Irony	Some things are revealed to the audience before the characters, increasing tension.							
6 Juxtaposition		Juxtaposition	Opposites that are placed next to each other. Each idea is being emphasised.							
7		Motif	Image, sound, action or other figure that has symbolic significance. Some motifs in R&J include light + dark and poison.							



Romeo and Juliet



		Plot Summary			Char	racters				
I	Prologue		L	Romeo Montague		6	Lady Capulet			
2	Act I		2	Juliet Capulet		7	Nurse			
			3	Lord Capulet		8	Tybalt			
			4	Mercutio		9	Benvolio			
3	Act 2		5	Paris		10	Friar			
					Themes		K	Key Vocabulary		
			1	Love		ı	Foreshadowing			
			2	Death						
4	Act 3		3	Fate versus Free Will		2	Hamartia			
			4	Honour and loyalty		4	Sonnet			
5	Act 4		-	Masculinit						
					Context	5	Dramatic			
			Ī	Queen Elizabeth		3	Irony			
6	Act 5		2	Astrology		6	Juxtaposition			
			3	The role of women		7	Motif			



#### Organic Chemistry

YH



	Crude Oil	, Hydrocarbons & Al	kanes			Fractional Distillation	Cracking													
1	What is crude oil?		nydrocarbons that formed ancient biomass , mostly iried in mud.	I	Process  I) Heated crude oil enters a tall fractionating column, which is hot at the bottom and gets		Heated crude oil enters a tall fraction		1	Supply & demand	less of a d	n molecules have less uses and are in demand, but they can be broken o smaller more useful products by								
2	Crude oil is mostly made up of alkanes	General formula: C <sub>n</sub> H Alkanes are saturated hydrocarbons.	H <sub>2n+2</sub> I (only single C-C bonds)	column				2) Vapours from the oil <b>evaporate</b> up the	2) Vapours from the oil <b>evaporate</b> up the column			2) Vapours from the oil <b>evaporate</b> up the column		2) Vapours from the oil <b>evaporate</b> up the column		2) Vapours from the oil <b>evaporate</b> up the column		Products		king processes result in the n of two products; an <b>alkane</b> and an
	enough    Comparison		3	Method 1		e is brought into contact with a d aluminium oxide catalyst at														
ı	Hydrocarbon		Molecules made up of carbon and hydrogen			heights 4) The different fractions separate because they have different boiling points			moderate around 5	e pressure and a temperature of 00°C.										
2	Homologous Series	<b>3</b>	A sequence of compounds with the	2	Diagram			Method 2	heated to	ocarbon is mixed with steam and a very high temperature nately 850°C).										
	same functional group and similar chemical properties.				erllensylperioloum gas (short-chain hydrocarbons and low boiling point alkaines, used as fuel)	Alkenes			s											
	Properties of	Hydrocarbons & Co		psoline/yetrol (used for fuel in car engines)  Aerosene (used for aircraft fuel)		ı	Alkenes homologous series		Alkenes are produced as one of the products of cracking. This double bond means that alkenes are more reactive than alkanes. Although it is the shorter chain											
1	Complete combustion	The combustion of hydrocarbon fuels releases energy. During combustion, the carbon and hydrogen in the fuels are oxidised. The complete combustion of a hydrocarbon produces carbon dioxide and water					alkane that is the desired product of cracking, alkenes are also useful to us. Alkenes can be used as monomers in polymerisation reactions to produce some of the plastics that we use in our everyday lives.													
2	hydrocarbons	short chain	long chain			(very thick, sticky mixture  → of tang-planin philocauthons, used in making roads and flat not(s)				. ,										
		lower boiling point	ture at which the the gas condenses higher boiling point volatility	3	Products	Useful petrochemicals produced: solvents, lubricants, polymers and detergents.	2	General formula		$C_nH_{2n}$										
	the benderey to turn into a gas lower volatility  wer runny (two viscosity how easily it burn into a gas lower volatility)  recognition in the benderey to turn into a gas lower volatility in the burn into a gas lower volatility in the burn into a gas lower turn in the burn into a gas lower volatility in the burn into a gas lower volatility in the burn into a gas lower volatility  running (happy valority)  lower volatility  running (happy valority)  lower farmmability				Essential fuels produced from crude oil: petrol, diesel oil, kerosene, heavy fuel oil and liquified petroleum gases.		Test		Unsaturated hydrocarbon breaks its double bond & forms a new compound (Di-Bromo) it goes Colourless with alkenes.											



#### Organic Chemistry

YH



	Crude Oil, Hydrocarbons & Alkanes				Fractional Distillation			Cracking
ı	What is crude oil?		ı	Process		1	Supply & demand	
2	Crude oil is mostly made up of alkanes					2	Products	
		Key Vocabulary				3	Method 1	
'	Hydrocarbon					4	Method 2	
2	Homologous Serie	5	2	Diagram	→ refineryl petroleum gas	4	Metriou 2	
					(short-train hydrocarbons and low boiling pont and low boiling pont alkanes, used as fuel)			Alkenes
	Properties of	Hydrocarbons & Combustion	<u> </u>		giscoline/jethol (used for fuel in car engines)  Aerosene (used for arcraft fuel)	I	Alkenes homologou	s series
I	Complete combustion				the oil is vaporised before it goes into the tower 350°C			
2	Properties of hydrocarbons	short chain size of molecule HTTT			residua (very thick, sticky mixture   of one g-than hydrocarbons, used in making cada and  flat model)			
		the temperature at which the liqued tools of the gas condenses beyond tools of the gas condenses beyond tooling point.	3	Products		2	General formula	
		Trigher volatility The tendency to ten note a gas tower volatility  Viscosity Over Country Over				3	Test	
		nigher fammability  Insue easily it burns  lower fammability						



Organic Chemistry (Triple Only)



	весктоот											
	Functional Groups											
ı	Alcohols	A molecule that contains the functional group <b>-OH</b> is called an alcohol.  General formula: $C_nH_{2n+1}OH$										
		Number Start of Full name of C in name chain										
			1	Meth-	Methanol							
			2	Eth-	Ethanol							
			3	Prop-	Propanol							
			4	But-	Butanol							
2	Esters	Alcohol + Carboxylic Acid —> Ester + Water They have the functional group –COO Naming esters: First name is the alcohol and second name is the salt name of the carboxylic acid Esters are volatile compounds are often used as; Food flavorings, perfumes, plastics, solvents and plasticisers.										
		н	н о <b>I II</b> - С — ОН									
3	Carboxyli c acids	General formula: C <sub>n</sub> H <sub>2n+1</sub> Carboxylic acids have the They have the ending 'ar <b>Carboxylic Acids</b> are wea <b>partially dissociate (ioni</b>	HOOH functional loic' lk acids due	to the fact								

	Polymerisation					
	I	Polymers	When small molecules are combined together they are able to create long chain molecules called <b>Polymers</b>			
	2	Addition polymerisation	Small molecules, such as alkenes (Monomers) react together to form Polymers  Alkenes are able to join together in a process called addition polymerisation because they can open up their double bonds and join (or add) together to form a chain.  Naming polymers  Repeat unit in brackets  W X Y ORDINARY OF THE POLYMER OF TH			
	3	Condensation polymerisation	When different <b>Monomers</b> are added together they create a secondary product usually water. The different <b>monomers</b> will have different functional groups.  General rule:  1) Dicarboxylic acid + dialcohol → polyester 2) Diol + dicarboxylic acid → polyester + water 3) Dicarboxylic acid + diamine → polyamide			
	4	Naturally occurring polymers	Amino acids are naturally occurring molecules that contain two functional groups. They have an amine group at one end of the molecule and a carboxylic acid group at the other.			
	5	Natural polymers	Sugars can undergo polymerisation in living things to make polymers, such as starch and cellulose.			



Organic Chemistry (Triple Only)



		Beckfoot					
		Functional Gr	oups				
ı	Alcohols						Polymers
			Number of C in chain	Start of name	Full name		
			2		<del>                                     </del>	2	Addition po
			3				
			4				
2	Esters					3	Condensati polymerisat
3	Carboxyli c acids						
						4	Naturally of polymers
						5	Natural pol

_		SUCCO			
			Polymerisation		
	I	Polymers	monomers polymer  co		
	2	Addition polymerisation	n v c x x T Repeat unit w x T C C C C T Polymer		
	3	Condensation polymerisation			
	4	Naturally occurring polymers			
]	5	Natural polymers			



#### Organic Chemistry (Triple Only)



	Reactions of Alcohol				
I	Combustion	<b>Ethanol</b> is used as a fuel so combustion is common reaction for most alcohols.			
2	With sodium	When reacting with Alkali metals It effervesces with Hydrogen gas.			
3	Oxidation	When alcohols are oxidised they produce a <b>Weak Acid</b> Can use an <b>oxdising agent</b> to form a <b>Carboxylic Acid</b> .  Ethanol + Oxidising agent —> Ethanoic Acid + Water  C <sub>2</sub> H <sub>5</sub> OH + [O] —> C <sub>2</sub> COOH + H <sub>2</sub> O			

	Reactions of Alkenes					
ı	Reaction with hydrogen	HC=CH + H2 → H-C-C-H H H H H H H H H H H H H H H H H				
2	Reactions with halogens	Naming: Give the name of the Halide first but; Chloro, Bromo and Iodo.				
3	Reaction with water	Can be added across the double bond by reacting an alkene with steam in the presence of a hot phosphoric acid catalyst.  This reaction will only happen at 300°C and with the use of a nickel catalyst.				

	Fermentation						
ı		C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> —> 2 CH <sub>3</sub> CH <sub>2</sub> OH + 2 CO <sub>2</sub> glucose ethanol carbon dioxide					
2		sugar   yeast   fementation (alcohol a co2)					
		DNA					
I	Structure	DNA molecules are two polymer chains twisted together into a double helix.  Each polymer chain is made up of nucleotides which are made up of a base, a sugar and a phosphate  nucleotide monomer					
2	Bases	There are four bases and the interaction between the bases on each polymer strand holds the two DNA strands together and forms the double helix.					
3	Base pairing	These four bases can only interact with others in pairs. Adenine (A) always pairs with thymine (T) and Cytosine (C) always pairs with Guanine (G).  Deoxyribonucleic Acid (DNA)  Sugar.  Base pairs  Base pairs  Adenine C Cytosine C Guanine					

4
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00
Rockfood

Organic Chemistry (Triple Only)



	Reactions of Alcohol				
I	Combustion				
2	With sodium				
3	Oxidation				

	Reactions of Alkenes				
I	Reaction with hydrogen	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2	Reactions with halogens	$C = C \qquad H \qquad B_V - B_V \qquad H - C \qquad -H \qquad B_V \qquad B_V$			
3	Reaction with water	H + H,0 - H + H OH			

		Fermentation					
ı							
2		sugar  yeast  fermentation (alcohol & co2)					
		DNA					
1	Structure	nucleotide monomer					
2	Bases						
3	Base pairing	Deoxyribonucleic Acid (DNA)  Bugar-  phosphate bookbone  Base pairs phosphate books  Adenine Thymine C Cytosine G Quarine					



#### Subject: Science (Physics)

#### Topic: Space (Physics only)

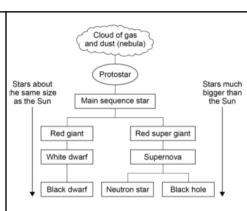
#### Year Group: 11



O	Our solar system is made up of			
I	Sun	The largest object in the Solar System. Powered by nuclear fusion.		
2	Planets	They orbit the Sun. Generally, as the distance between the planet and the Sun increases, the temperature on the planet decreases and the time taken to orbit the Sun increases.		
3	Moons	Natural satellites that orbit planets.		
4	Dwarf planets	Unlike planets, their gravitational field is not strong enough to 'clear the neighbourhood' around it.		
5	Asteroids	Move in elliptical orbits around the Sun. Made of metals and rock.		
6	Comets	Orbit the Sun. Made of rock, dust and ice.		

#### Life cycle of a star

- Stars form from nebula that collapse inwards due to gravity. This causes the dust and gas to heat up. Eventually it is hot enough for fusion to occur and a star is born.
- A star goes through a life cycle. The life cycle is determine by the size of the star.

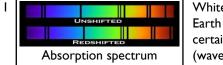


#### Orbital motion

- Planets orbit stars. Moons and artificial satellites orbit planets. This is possible due to gravity.
- When moving in circular orbits objects can have a changing velocity, even if their speed is constant, as when moving in a circle their direction is constantly changing (remember velocity has size & direction).
- For a satellite in a stable orbit, the radius must change if the speed changes.

If it is too fast, it will move off into space. If it is too slow, it will spiral into Earth.

#### Red shift



White light arriving at Earth from stars has certain colours (wavelengths) missing.

- The dark lines in the absorption spectrum from stars in distant galaxies have all been shifted towards the red end of the spectrum (red-shifted).
- This shift tells us that the wavelength of their light has been stretched, indicating that these stars are moving away from Earth.



- The more red-shifted the light from a galaxy is, the faster the galaxy is moving away from Earth. Galaxies that are further away are moving away from us fastest (shown by observations from supernovae).
- Red shift provides evidence that space is expanding which supports the Big Bang theory.
- There is still much about the universe that is not understood, for example dark mass and dark energy.

Key'	Vocabulary	
_	Galaxy	

Protostar

White dwarf

7

together by gravitational attraction. Our solar system is in the Milky Way galaxy. 2 A large cloud of gas and dust from Nebula

A system of billions of stars held

- which stars form. 3 Light nuclei (e.g. hydrogen) join Nuclear
- together to produce heavier nuclei fusion and energy. Leads to the production of new elements. 4 A very young star that is still
- gathering mass. 5 Main The stable phase in a star's life. The gravity pulling the star inwards sequence is balanced by the outward star pressure produced by fusion.
- Red giant When all the hydrogen has been used up in fusion, larger nuclei begin to fuse. The star expands to become a red giant.

Nuclear reactions have finished.

The star contracts under its own

the wavelength of light from distant

- gravity. 8 The explosion of a large star. Supernova Produces elements heavier than iron.
- 9 Black hole A region where gravity is so strong that nothing can escape. 10 Red shift There is an observed increase in
- galaxies. П Big bang The universe began from a very small, hot, dense point. theory



#### Subject: Science (Physics)

Topic: Space (Physics only)

Year Group: 11



Our solar system is made up of		C	Orbital motion		Key Vocabulary	
ī	Sun	Ī	Planets orbit		I	Galaxy
2	Planets	2	When moving in circular of changing	orbits objects can have a	2	Nebula
3	Moons  Dwarf	3	For a satellite in a stable orbit, the radius must	If it is too fast, it will  If it is too slow, it will	3	Nuclear fusion
	planets	R	ed shift		4	Protostar
6	Asteroids Comets	Ī	UNSHIFTED	White light arriving at Earth from stars	5	Main sequence star
Life cycle of a star		2	Absorption spectrum  The dark lines in the abso	rption spectrum	6	Red giant
ı	I Stars form from					
2	A	3	This shift tells us		7	White dwarf
2	A star goes  through a				8	Supernova
	life cycle. The life cycle is determine  Stars about the same size as the Sun Main sequence star the Sun	4	The more red-shifted the	light from a galaxy is,	9	Black hole
	d Red giant Red super giant by the size of the star.	5	Red shift provides evidend	ce that	10	Red shift
	Black dwarf Neutron star Black hole	6	There is still much about	the universe	11	Big bang theory



#### Foundation Tier Knowledge Organiser

#### KS4



Present Tense				
1	Je suis	l am		
2	J'ai	I have		
3	Je fais	I do/make		
4	Je vais	l go		
5	J'aime	I like		
6	Je déteste	I hate		
7	Je joue	I play		
8	Je mange	l eat		
9	Je bois	I drink		
10	Je lis	I read		
11	J'achète	I buy		
12	Je trouve	I find		
13	Je travaille	I work		
14	Je pense	I think		
15	c'est	it's		

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

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

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

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

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

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



#### Foundation Tier Knowledge Organiser





	Sentence Starters			
1	je pense que	I think that		
2	je crois que	I believe that		
3	à mon avis	in my opinion		
4	selon moi	in my opinion		
5	je dirais que	I would say that		

Connectives			
1	et	and	
2	ou	or	
3	où	why	
4	parce que	because	
5	car	as	
6	mais	but	
7	pourtant	however	
8	aussi	also	

Intensifiers					
1	un peu	a bit			
2	assez	quite			
3	très	very			
4	vraiment	really			
5	beaucoup	much/ a lot			
6	trop	too			

Exclamations!!!

Quel dommage!

Quel

plaisir!

2

What a

shame!

What a

pleasure!

	Adjectives		
1	amusant	fun	
2	intéressant	interesting	
3	passionnant	exciting	
4	utile	useful	
5	beau	beautiful	
6	fantastique	fantastic	
7	incroyable	incredible	
8	ennuyeux/ barbant	boring	
9	fatigant	tiring	
10	difficile	difficult	
11	cher	expensive	

	Signposting Time Frames		
1	l'année dernière	last year	
2	la semaine dernière	last week	
3	hier	yesterday	
4	normalement	normally	
5	d'habitude	usually	
6	ce soir	this evening	
7	la semaine prochaine	next week	
8	l'année prochaine	next year	
9	dans l'avenir	in the future	

Frequency		
1	tous les jours	every day
2	de temps en temps	from time to time
3	une fois par semaine	once a week
4	deux fois par mois	twice a month
5	nejamais	never
6	toujours	always
7	souvent	often
8	quelquefois	sometimes

	Perfect Phrases For Any Essay			
1	Hier je suis allé au cinema/au stade/au restaurant/au parc/au café/à la piscine et c'était	Yesterday I went to the cinema/stadium/restaurant/park/café/swimming pool and it was		
2	J'ai mangé une pizza/des frites/un hamburger/du jambon/du poisson/une glace et c'était	I ate a pizza/fries/a hamburger/some ham/fish/an ice- cream and it was		
3	J'ai joué au foot/au tennis/au rugby/au golf et c'était	I played football/tennis/rugby/golf and it was		
4	J'ai bu un coca/un jus d'orange et c'était	I drank a coke/an orange juice and it was		

Fancy Phrases			
1	je l'ai trouvé génial	I found it great	
2	je me suis bien amusé(e)	I really enjoyed myself	
3	j'ai tellement hâte	I'm really looking forward to it	



#### Foundation Tier Knowledge Organiser

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	J	_



Present Tense		
1	Je suis	
2	J'ai	
3	Je fais	
4	Je vais	
5	J'aime	
6	Je déteste	
7	Je joue	
8	Je mange	
9	Je bois	
10	Je lis	
11	J'achète	
12	Je trouve	
13	Je travaille	
14	Je pense	
15	c'est	

Perfect Tense		
1	Je suis allé(e)	
2	Je suis parti(e)	
3	J'ai fait	
4	J'ai aimé	
5	J'ai détesté	
6	J'ai joué	
7	J'ai mangé	
8	J'ai acheté	
9	J'ai trouvé	
10	J'ai travaillé	
11	J'ai regardé	
12	J'ai vu	
13	J'ai bu	
14	J'ai lu	
	· · · · · · · · · · · · · · · · · · ·	

Near Future Tense – I am going to		
1	Je vais être	
2	Je vais avoir	
3	Je vais aller	
4	Je vais faire	
5	Je vais jouer	
6	Je vais regarder	
7	Je vais manger	
8	Je vais achèter	
9	Je vais travailler	
10	Je vais voir	
11	Je vais boire	
12	Je vais devenir	
13	Je vais voyager	
14	ce sera	

Conditional Tense – I would like to		
1	Je voudrais être	
2	Je voudrais avoir	
3	Je voudrais aller	
4	Je voudrais faire	
5	Je voudrais jouer	
6	Je voudrais regarder	
7	Je voudrais manger	
8	Je voudrais achèter	
9	Je voudrais travailler	
10	Je voudrais voir	
11	Je voudrais boire	
12	Je voudrais devenir	
13	Je voudrais voyager	
14	ce serait	

	II y a		
1	Il y a		
2	Il y avait		
3	Il y aura		
4	II y aurait		
		·	

	Structures with infinitives			
1	J'aime aller/faire			
2	Je n'aime pas aller/faire			
3	il faut aller/jouer			
4	on peut/doit aller			

Imperfect Tense		
1	J'étais	
2	J'avais	
3	C'était	
4	il y avait	



1

2

3

#### Subject: French

#### Foundation Tier Knowledge Organiser

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\	J	

**Perfect Phrases For Any Essay** 



Sentence Starters		
1	je pense que	
2	je crois que	
3	à mon avis	
4	selon moi	
5	je dirais que	

Connectives		
1	et	
2	ou	
3	où	
4	parce que	
5	car	
6	mais	
7	pourtant	
8	aussi	

Intensifiers		
1	un peu	
2	assez	
3	très	
4	vraiment	
5	beaucoup	
6	trop	

Exclamations!!!

Hier je suis allé au cinema/au

Quel dommage!

Quel plaisir!

	Adjectives		
1	amusant		
2	intéressant		
3	passionnant		
4	utile		
5	beau		
6	fantastique		
7	incroyable		
8	ennuyeux/ barbant		
9	fatigant		
10	difficile		
11	cher		

**Adjectives** 

Signposting Time Frames		
1	l'année dernière	
2	la semaine dernière	
3	hier	
4	normalement	
5	d'habitude	
6	ce soir	
7	la semaine prochaine	
8	l'année prochaine	
9	dans l'avenir	

	Frequency	
1	tous les jours	
2	de temps en temps	
3	une fois par semaine	
4	deux fois par mois	
5	nejamais	
6	toujours	
7	souvent	
8	quelquefois	

semaine prochaine	6 toujours		stade/au restaurant/au parc/au	
nnée prochaine	prochaine 7 souvent		café/à la piscine et c'était	
ns l'avenir	8 quelquefois	2	J'ai mangé une pizza/des frites/un hamburger/du jambon/du poisson/une glace et	
Fancy Ph	rases		c'était	
je l'ai trouvé génial		3	J'ai joué au foot/au tennis/au rugby/au golf et c'était	
je me suis bien amusé(e)		4	J'ai bu un coca/un jus d'orange	
j'ai tellement hâte			et c'était	



#### Higher Tier Knowledge Organiser





1Je suisI am2J'aiI have3Je faisI do/make4Je vaisI go5J'aimeI like6Je détesteI hate7Je joueI play8Je mangeI eat9Je boisI drink10Je lisI read11Je voisI see12J'achèteI buy13Je trouveI find14Je travailleI work15Je penseI think16Je croisI believe17Je doisI have to18Je peuxI can19Je veuxI want to20c'estit's		Present Ter	ise
3 Je fais I do/make 4 Je vais I go 5 J'aime I like 6 Je déteste I hate 7 Je joue I play 8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	1	Je suis	l am
4 Je vais I go 5 J'aime I like 6 Je déteste I hate 7 Je joue I play 8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	2	J'ai	I have
5 J'aime I like 6 Je déteste I hate 7 Je joue I play 8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	3	Je fais	I do/make
6 Je déteste I hate 7 Je joue I play 8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	4	Je vais	l go
7 Je joue I play 8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	5	J'aime	I like
8 Je mange I eat 9 Je bois I drink 10 Je lis I read 11 Je vois I see 12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	6	Je déteste	I hate
9 Je bois I drink  10 Je lis I read  11 Je vois I see  12 J'achète I buy  13 Je trouve I find  14 Je travaille I work  15 Je pense I think  16 Je crois I believe  17 Je dois I have to  18 Je peux I can  19 Je veux I want to	7	Je joue	I play
10 Je lis I read  11 Je vois I see  12 J'achète I buy  13 Je trouve I find  14 Je travaille I work  15 Je pense I think  16 Je crois I believe  17 Je dois I have to  18 Je peux I can  19 Je veux I want to	8	Je mange	l eat
11 Je vois I see  12 J'achète I buy  13 Je trouve I find  14 Je travaille I work  15 Je pense I think  16 Je crois I believe  17 Je dois I have to  18 Je peux I can  19 Je veux I want to	9	Je bois	I drink
12 J'achète I buy 13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	10	Je lis	I read
13 Je trouve I find 14 Je travaille I work 15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	11	Je vois	l see
14Je travailleI work15Je penseI think16Je croisI believe17Je doisI have to18Je peuxI can19Je veuxI want to	12	J'achète	I buy
15 Je pense I think 16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	13	Je trouve	I find
16 Je crois I believe 17 Je dois I have to 18 Je peux I can 19 Je veux I want to	14	Je travaille	I work
17 Je dois I have to 18 Je peux I can 19 Je veux I want to	15	Je pense	I think
18 Je peux I can 19 Je veux I want to	16	Je crois	I believe
19 Je veux I want to	17	Je dois	I have to
	18	Je peux	l can
20 c'est it's	19	Je veux	I want to
	20	c'est	it's

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

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

	Imperfect Tense - I used to		
1	J'étais	be	
2	J'allais	go	
3	J'avais	have	
4	Je faisais	do	
5	Je jouais	play	
6	Je regardais	watch	
7	J'écoutais	listen	
8	Je mangeais	eat	
9	Je buvais	drink	
10	J'achetais	buy	
11	J'aimais	like	
12	C'était	It was	

Future Tense		
1	Je serai	I will be
2	J'aurai	I will have
3	J'irai	I will go
4	Je ferai	I will do
5	Je jouerai	I will play
6	Je regarderai	I will watch
7	Je mangerai	I will eat
8	J'acheterai	I will buy
9	Je travaillerai	I will work
10	Je verrai	I will see
11	Je boirai	I will drink
12	Il sera	It will be

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



#### Higher Tier Knowledge Organiser





difficult

Sentence Starters			
1	je pense que	I think that	
2	je crois que	I believe that	
3	à mon avis	in my opinion	
4	selon moi	in my opinion	
5	je dirais que	I would say that	
6	il me semble que	it seems to me that	
7	d'un point de vue personnel	from a personal point of view	
8	bien que je sache que	although I know that	
9	à cause du fait que	due to the fact that	
10	Je considerais que	I would consider that	
11	il faut que je dise que	I have to say that	

Connectives				
1	parce que	because		
2	car	as		
3	mais	but		
4	pourtant	however		
5	en revanche	however		
6	néanmoins	nevertheless		
7	certes	admittedly		
8	aussi	also		
9	donc	therefore		
10	d'ailleurs	besides		
11	bien que (+subj)	although		
12	à moins que (+subj)	unless		

Intensifiers		
1	un peu	a bit
2	assez	quite
3	très	very
4	vraiment	really
5	beaucoup	much/ a lot
6	trop	too
7	tellement	SO
8 extrêmement		extremely
Exclamations!!!		

What a

shame!

What a

Quel

dommage!

Quel plaisir!

	Adjectives				
	1	amusant	fun		
	2	intéressant	interesting		
	3	passionnant	exciting		
	4	utile	useful		
$\left\{ \right.$	5	beau	beautiful		
	6	fantastique	fantastic		
	7	incroyable	incredible		
]	8	ennuyeux/ barbant	boring		
1	9	fatigant	tiring		

Signposting Time Frames				
1	l'année dernière	last year		
2	la semaine dernière	last week		
3	hier	yesterday		
4	normalement	normally		
5	d'habitude	usually		
6	ce soir	this evening		
7	la semaine prochaine	next week		
8	l'année prochaine	next year		
9	dans l'avenir	in the future		

	Frequency				
1	tous les jours	every day			
2	de temps en temps	from time to time			
3	une fois par semaine	once a week			
4	deux fois par mois	twice a month			
5	nejamais	never			
6	toujours	always			
7	souvent	often			
8	quelquefois/ parfois	sometimes			

	-	,	pleasure!	L	11	cher	expensive
Fancy Pl			Ph	rases	5		
	1	après avo	ir mangé		after having eaten		
	2	je l'ai trou	ıvé génial		I fou	ınd it great	
;	3	je me suis bien amusé(e)			I really enjoyed myself		lf
4	4	ça m'a vraiment plu		I really enjoyed it			
ļ	5	ça en valait la peine			lt wa	as worth it	
(	6	je n'aurais jamais pensé			l wo	uld never have th	nought
	7	j'ai tellement hâte			ľm i	really looking for	ward to it
	8	le jeu en v	vaudra la chandelle	it will be worth it			

10

difficile



#### Higher Tier Knowledge Organiser

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Present Tense		
1	Je suis	
2	J'ai	
3	Je fais	
4	Je vais	
5	J'aime	
6	Je déteste	
7	Je joue	
8	Je mange	
9	Je bois	
10	Je lis	
11	Je vois	
12	J'achète	
13	Je trouve	
14	Je travaille	
15	Je pense	
16	Je crois	
17	Je dois	
18	Je peux	
19	Je veux	
20	c'est	

	Perfect Tense		
1	Je suis allé(e)		
2	Je suis parti(e)		
3	J'ai fait		
4	J'ai aimé		
5	J'ai détesté		
6	J'ai joué		
7	J'ai mangé		
8	J'ai acheté		
9	J'ai trouvé		
10	J'ai travaillé		
11	J'ai regardé		
12	J'ai vu		
13	J'ai bu		
14	J'ai lu		
		-	

	II y a		
1	ll y a		
2	Il y avait		
3	Il y aura		
4	ll y aurait		

	Imperfect Tense - I used to		
1	J'étais		
2	J'allais		
3	J'avais		
4	Je faisais		
5	Je jouais		
6	Je regardais		
7	J'écoutais		
8	Je mangeais		
9	Je buvais		
10	J'achetais		
11	J'aimais		
12	C'était		

Future Tense			
1	Je serai		
2	J'aurai		
3	J'irai		
4	Je ferai		
5	Je jouerai		
6	Je regarderai		
7	Je mangerai		
8	J'acheterai		
9	Je travaillerai		
10	Je verrai		
11	Je boirai		
12	Il sera		

	Structures with infinitives			
1	J'aime aller/faire			
2	Je n'aime pas aller/faire			
3	Je vais aller/jouer			
4	Je voudrais aller/jouer			
5	il faut aller/jouer			
6	on peut/doit aller			



#### Higher Tier Knowledge Organiser

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	Sentence Starters		
1	je pense que		
2	je crois que		
3	à mon avis		
4	selon moi		
5	je dirais que		
6	il me semble que		
7	d'un point de vue personnel		
8	bien que je sache que		
9	à cause du fait que		
10	Je considerais que		
11	il faut que je dise que		

	Connective	es
1	parce que	
2	car	
3	mais	
4	pourtant	
5	en revanche	
6	néanmoins	
7	certes	
8	aussi	
9	donc	
10	d'ailleurs	
11	bien que (+subj)	
12	à moins que (+subj)	

Intensifiers				
1	un peu			
2	assez			
3	très			
4	vraiment			
5	beaucoup			
6	trop			
7	tellement			
8	extrêmement			
Exclamations!!!				

Quel dommage!

Quel plaisir!

Adjectives			
1	amusant		
2	intéressant		
3	passionnant		
4	utile		
5	beau		
6	fantastique		
7	incroyable		
8	ennuyeux/ barbant		
9	fatigant		
10	difficile		
11	cher		

	Signposting Time Frames			
1	l'année dernière			
2	la semaine dernière			
3	hier			
4	normalement			
5	d'habitude			
6	ce soir			
7	la semaine prochaine			
8	l'année prochaine			
9	dans l'avenir			

	Frequency			
1	tous les jours			
2	de temps en temps			
3	une fois par semaine			
4	deux fois par mois			
5	nejamais			
6	toujours			
7	souvent			
8	quelquefois/ parfois			

		ļ .		
	Fancy Phrases			
1	après avoir mangé			
2	je l'ai trouvé génial			
3	je me suis bien amusé(e)			
4	ça m'a vraiment plu			
5	ça en valait la peine			
6	je n'aurais jamais pensé			
7	j'ai tellement hâte			
8	le jeu en vaudra la chandelle			



#### Foundation Tier Knowledge Organiser





	Present T	ense
1	Ich bin	l am
2	Ich habe	I have
3	Ich mache	I do/make
4	Ich gehe	l go
5	Ich fahre	I travel
6	Ich mag	l like
7	Ich hasse	I hate
8	Ich spiele	I play
9	Ich esse	l eat
10	Ich trinke	I drink
11	Ich lese	I read
12	Ich sehe	l see
13	Ich kaufe	I buy
14	Ich finde	I find
15	Ich arbeite	I work
16	Ich denke	I think
17	Ich muss	I have to
18	Ich kann	l can
19	Ich will	I want to
20	es ist	it's

	Perfect Tense			
1	Ich bin gegangen	l went		
2	Ich bin gefahren	I travelled		
3	Ich bin geflogen	I flew		
4	Ich bin geblieben	I stayed		
5	Ich habe gemacht	I did/made		
6	Ich habe gespielt	I played		
7	Ich habe gegessen	l ate		
8	Ich habe getrunken	I drank		
9	Ich habe gekauft	I bought		
10	Ich habe gearbeitet	I worked		
11	Ich habe gesehen	I watched		
12	Ich habe gelesen	I read		
13	Ich habe gefunden	I found		
14	ich habe besucht	I visited		
Using Geben				

	Using Geben			
1	es gibt	There is/are		
2	es gab	There was/were		
3	es wirdgeben	There will be		
4	es würdegeben	There would be		

	Simple Past	
1	ich war	l was
2	es war	it was
3	sie waren	they were
4	ich hatte	I had
5	es gab	there was/were
Condition		
	Conditio	nal Fancy
1	<b>Conditio</b> ich wäre	I would be
1 2		<u> </u>
	ich wäre	I would be
2	ich wäre es wäre	I would be

Future/Conditional Tense			
ich v	ich werde/möchte(I will/would like to)		
1	sein	be	
2	werden	become	
3	gehen	go	
4	fahren	travel	
5	spielen	play	
6	essen	eat	
7	trinken	drink	
8	sehen	see	
9	arbeiten	work	
10	lesen	read	
11	machen	make/do	
12	besuchen	visit	

Structures With Infinitives			
1	ich mussmachen	I have to do	
2	ich darfmachen	I am allowed to do	
3	ich kannmachen	I can do	
4	ich soll…machen	I should do	
5	ich willmachen	I want to do	
6 man muss/kann/sollmachen		you must/can/should do	



#### Subject: German

#### Foundation Tier Knowledge Organiser





expensive

cheap

Sentence Starters			
1	meiner Meinung nach	in my opinion	
2	meines erachtens	in my opinion	
3	im Großen und Ganzen	all in all	
4	ich denke, dass	I think that	
5	ich würde sagen, dass	I would say that	
6	ich muss sagen, dass	I have to say that	

Connectives			
1	und	and	
2	aber	but	
3	denn	because	
4	oder	or	
5	jedoch	however	
6	außerdem	furthermore	
7	weil/da	because	
8	dass	that	

Intensifiers		
1	ein bisschen	a bit
2	ziemlich	quite
3	sehr	very
4	wirklich	really
5	echt	genuinely
6	zu	too
7	SO	SO
8	ganz	totally

Exclamations!!!

What a

shame!

Wow!

Wie

Schade!

Wahnsinn!

		Adjective	es
	1	lustig	funny
	2	interessant	interesting
	3	spannend	exciting
	4	nützlich	useful
	5	schön	beautiful
	6	toll	great
	7	unglaublich	incredible
	8	langweilig	boring
1	9	anstrengend	tiring
	10	schwierig	difficult

Signposting Time Frames			
1	letztes Jahr	last year	
2	letzte Woche	last week	
3	gestern	yesterday	
4	normalerweise	normally	
5	gewöhnlich	usually	
6	dieses Abend	this evening	
7	nächste Woche	next week	
8	nächstes Jahr	next year	
9	in der Zukunft	in the future	
10	am Wochenende	at the weekend	

Frequency				
1	jeden Tag	every day		
2 ab und zu		from time to time		
3	einmal pro Woche	once a week		
4	zweimal pro Woche	twice a month		
5	nie	never		
6	immer	always		
7	oft	often		
8 manchmal		sometimes		
Evenueles				

	Fancy Phrases				
1	es hat eine M	lenge Spaß gemac	ht	it was loads of fun	
2	es hat sich wi	irklich gelohnt		it was really worth it	
3	das hat mir g	efallen		l liked it	
4	ich freue mic	h schon darauf		I am already looking forward to it	
5	ich werde mi	ch amüsieren		I will enjoy myself	

11

teuer

billig

	Perfect Past Examples				
1	Letztes Wochenende bin ich ins Kino/Café/Restaurant/Stadion/Museum gegangen und es hat eine Menge Spaß gemacht.	Last weekend I went to the cinema/café/restaurant/stadium/ museum and it was loads of fun.			
2	Ich habe Hähnchen, Pommes und Salat gegessen und ich habe Cola getrunken. Das Essen war sehr lecker und es hat sich wirklich gelohnt. Wahnsinn!	I ate chicken, chips and salad and I drank cola. The food was very tasty and it was really worth it. Wow!			

	Fantastic Future Examples		
1	Nächstes Jahr werde ich mit meinen Freunden nach Berlin fahren und ich freue mich schon darauf.	Next year I will travel with my friends to Berlin. I am already looking forward to it.	
2	Ich möchte ins Café gehen und ich möchte Pizza essen. Ich werde mich amüsieren, weil ich Pizza liebe.	I would like to go to café and I would like to eat pizza. I will enjoy myself I love pizza.	



#### Foundation Tier Knowledge Organiser

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	Present T	ense
1	Ich bin	
2	Ich habe	
3	Ich mache	
4	Ich gehe	
5	Ich fahre	
6	Ich mag	
7	Ich hasse	
8	Ich spiele	
9	Ich esse	
10	Ich trinke	
11	Ich lese	
12	Ich sehe	
13	Ich kaufe	
14	Ich finde	
15	Ich arbeite	
16	Ich denke	
17	Ich muss	
18	Ich kann	
19	Ich will	
20	es ist	

		Perfect Tense		
	1	Ich bin gegangen		
	2	Ich bin gefahren		
	3	Ich bin geflogen		
	4	Ich bin geblieben		
	5	Ich habe gemacht		
	6	Ich habe gespielt		
	7	Ich habe gegessen		
	8	Ich habe getrunken		
	9	Ich habe gekauft		
	10	Ich habe gearbeitet		
	11	Ich habe gesehen		
	12	Ich habe gelesen		
	13	Ich habe gefunden		
	14	ich habe besucht		
		Using Gebe	n	
	1	es gibt		

es gab

es wird...geben

es würde...geben

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en	

	Simpl	e Past
1	ich war	
2	es war	
3	sie waren	
4	ich hatte	
5	es gab	
	Conditio	nal Fancy
1	<b>Conditio</b> ich wäre	nal Fancy
1 2		nal Fancy
	ich wäre	nal Fancy
2	ich wäre es wäre	nal Fancy

Future/Conditional Tense			
ich v	ich werde/möchte(I will/would like to)		
1	sein		
2	werden		
3	gehen		
4	fahren		
5	spielen		
6	essen		
7	trinken		
8	sehen		
9	arbeiten		
10	lesen		
11	machen		
12	besuchen		

Structures With Infinitives			
1	ich mussmachen		
2	ich darfmachen		
3	ich kannmachen		
4	ich sollmachen		
5	ich willmachen		
6	man muss/kann/sollmachen		



#### Subject: German

#### Foundation Tier Knowledge Organiser

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Sentence Starters			
1	meiner Meinung nach		
2	meines erachtens		
3	im Großen und Ganzen		
4	ich denke, dass		
5	ich würde sagen, dass		
6	ich muss sagen, dass		
Signposting Time Frames			

	Connective	es
1	und	
2	aber	
3	denn	
4	oder	
5	jedoch	
6	außerdem	
7	weil/da	
8	dass	
	Frequency	

		Intensifiers	
	1	ein bisschen	
	2	ziemlich	
	3	sehr	
	4	wirklich	
	5	echt	
	6	zu	
	7	so	
	8	ganz	
_			
_		Exclamations!!!	

Wie Schade!

Wahnsinn!

Adjectives		
1	lustig	
2	interessant	
3	spannend	
4	nützlich	
5	schön	
6	toll	
7	unglaublich	
8	langweilig	
9	anstrengend	
10	schwierig	
11	teuer	
12	billig	

	Signposting Till	ic i i airies
1	letztes Jahr	
2	letzte Woche	
3	gestern	
4	normalerweise	
5	gewöhnlich	
6	dieses Abend	
7	nächste Woche	
8	nächstes Jahr	
9	in der Zukunft	
10	am Wochenende	

	Frequency	1
1	jeden Tag	
2	ab und zu	
3	einmal pro Woche	
4	zweimal pro Woche	
5	nie	
6	immer	
7	oft	
8	manchmal	

	Fancy Phrases		
1	es hat eine Menge Spaß gemacht		
2	es hat sich wirklich gelohnt		
3	das hat mir gefallen		
4	ich freue mich schon darauf		
5	ich werde mich amüsieren		

	Perfect Past Examp	les
1	Letztes Wochenende bin ich ins Kino/Café/Restaurant/Stadion/Museum gegangen und es hat eine Menge Spaß gemacht.	
2	Ich habe Hähnchen, Pommes und Salat gegessen und ich habe Cola getrunken. Das Essen war sehr lecker und es hat sich wirklich gelohnt. Wahnsinn!	

	Future Tense Ex	camples
1	Nächstes Jahr werde ich mit meinen Freunden nach Berlin fahren und ich freue mich schon darauf.	
2	Ich möchte ins Café gehen und ich möchte Pizza essen. Ich werde mich amüsieren, weil ich Pizza liebe.	



#### Higher Tier Knowledge Organiser

KS4



	Present T	ense
1	Ich bin	l am
2	Ich habe	I have
3	Ich mache	I do/make
4	Ich gehe	l go
5	Ich fahre	I travel
6	Ich mag	l like
7	Ich hasse	I hate
8	Ich spiele	I play
9	Ich esse	l eat
10	Ich trinke	I drink
11	Ich lese	I read
12	Ich sehe	l see
13	Ich kaufe	I buy
14	Ich finde	I find
15	Ich arbeite	I work
16	Ich denke	I think
17	Ich muss	I have to
18	Ich kann	l can
19	Ich will	I want to
20	es ist	it's

	Perfect Tense	
1	Ich bin gegangen	I went
2	Ich bin gefahren	I travelled
3	Ich bin geflogen	I flew
4	Ich bin geblieben	I stayed
5	Ich habe gemacht	I did/made
6	Ich habe gespielt	I played
7	Ich habe gegessen	l ate
8	Ich habe getrunken	I drank
9	Ich habe gekauft	I bought
10	Ich habe gearbeitet	I worked
11	Ich habe gesehen	I watched
12	Ich habe gelesen	I read
13	Ich habe gefunden	I found
14	ich habe besucht	I visited
	Using Geber	1

	Using Geben		
1	es gibt	There is/are	
2	es gab	There was/were	
3	es wirdgeben	There will be	
4	es würdegeben	There would be	

	Simpl	e Past
1	ich war	l was
2	es war	it was
3	sie waren	they were
4	ich hatte	I had
5	es gab	there was/were
	Conditio	nal Fancy
1	<b>Conditio</b> ich wäre	nal Fancy I would be
1 2		-
	ich wäre	I would be
2	ich wäre es wäre	I would be

Future/Conditional Tense		
ich v	verde/möchte(	I will/would like to)
1	sein	be
2	werden	become
3	gehen	go
4	fahren	travel
5	spielen	play
6	essen	eat
7	trinken	drink
8	sehen	see
9	arbeiten	work
10	lesen	read
11	machen	make/do
12	besuchen	visit
		•

	Structures With Infinitives				
	1 ich mussmachen		I have to do		
	2	ich darfmachen	I am allowed to do		
	3	ich kannmachen	I can do		
	4	ich sollmachen	I should do		
	5	ich willmachen	I want to do		
6		man muss/kann/sollmachen	you must/can/should do		



#### Subject: German

#### Higher Tier Knowledge Organiser





	Sentence Starters				
1	meiner Meinung nach	in my opinion			
2	meines erachtens	in my opinion			
3	im Großen und Ganzen	all in all			
4	auf der einen Seite	on the one hand			
5	aber auf der anderen Seite	but on the other hand			
6	es scheint mir, dass	it seems to me that			
7	ich denke, dass	I think that			
8	ich würde sagen, dass	I would say that			
9	obwohl ich weiß, dass	although I know that			
10	ich glaube, dass	I believe that			
11 ich muss sagen, dass I have to say that		I have to say that			

	Connectives				
1	und	and			
2	aber	but			
3	denn	because			
4	sondern (neg)	but			
5	jedoch	however			
6	deshalb	therefore			
7	trotzdem	nevertheless			
8	außerdem	furthermore			
9	weil/da	because			
10	dass	that			
11	obwohl	although			
12	wenn	if/when			

	Intensi	fiers	
1	ein bisschen	a bit	1
2	ziemlich	quite	2
3	sehr	very	3
4	wirklich	really	4
5	echt	genuinely	5
6	zu	too	<b> </b>
7	SO	so	6
8	ganz	totally	7
			8
	Exclamat	cions!!!	9
1	Wie	What a	
	Schade!	shame!	10

Wow!

Wahnsinn!

	Adjectives				
	1 lustig		funny		
	2	interessant	interesting		
	3	spannend	exciting		
	4	nützlich	useful		
	5	schön	beautiful		
	6	toll	great		
7		unglaublich	incredible		
	8	langweilig	boring		
	9	anstrengend	tiring		
	10 schwierig 11 teuer		difficult		
			expensive		
	12	billig	cheap		

	Signposting Time F	rames
1	letztes Jahr	last year
2	letzte Woche	last week
3	gestern	yesterday
4	normalerweise	normally
5	gewöhnlich	usually
6	dieses Abend	this evening
7	nächste Woche	next week
8	nächstes Jahr	next year
9	in der Zukunft	in the future

12 wenn if/when					
			Frequen	су	
1	jedei	n Tag		ever	y day
2	ab uı	nd zu		from	time to time
3	einm	nal pro '	Woche	once	e a week
4	zwei	mal pro	Woche	twice	e a month
5	nie			neve	er
6	imm	er		alwa	ys
7	oft			ofter	n
8	man	chmal		some	etimes

ı							
		Fancy Phrases					
	1	es hat eine Menge Spaß gemacht	it was loads of fun				
	2	ich habe mich wirklich amüsiert	I really enjoyed myself				
	3	es hat sich wirklich gelohnt	it was really worth it				
	4	das hat mir gefallen	l liked it				
	5	ich hätte nie gedacht	I would have never thought				
	6	je (heißer), desto besser	the (hotter) the better				
	7 ich freue mich schon darauf		I am already looking forward to it				
	8	es wird bestimmt viel Spaß machen	it will definitely be lots of fun				



#### Higher Tier Knowledge Organiser

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	Present T	ense
1	Ich bin	
2	Ich habe	
3	Ich mache	
4	Ich gehe	
5	Ich fahre	
6	Ich mag	
7	Ich hasse	
8	Ich spiele	
9	Ich esse	
10	Ich trinke	
11	Ich lese	
12	Ich sehe	
13	Ich kaufe	
14	Ich finde	
15	Ich arbeite	
16	Ich denke	
17	Ich muss	
18	Ich kann	
19	Ich will	
20	es ist	
·		

		Perfect Tense	
	1	Ich bin gegangen	
	2	Ich bin gefahren	
	3	Ich bin geflogen	
	4	Ich bin geblieben	
	5	Ich habe gemacht	
	6	Ich habe gespielt	
	7	Ich habe gegessen	
	8	Ich habe getrunken	
	9	Ich habe gekauft	
	10	Ich habe gearbeitet	
	11	Ich habe gesehen	
	12	Ich habe gelesen	
	13	Ich habe gefunden	
	14	ich habe besucht	
		Using Geben	
ĺ	1	es gibt	

es gab

es wird...geben

es würde...geben

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	Simple Past						
1	ich war						
2	es war						
3	sie waren						
4	ich hatte						
5	es gab						
Conditional Fancy							
	Conditio	nal Fancy					
1	<b>Conditio</b> ich wäre	nal Fancy					
1 2		nal Fancy					
	ich wäre	nal Fancy					
2	ich wäre	nal Fancy					

Future/Conditional Tense								
ich v	ich werde/möchte(I will/would like to)							
1	sein							
2	werden							
3	gehen							
4	fahren							
5	spielen							
6	essen							
7	trinken							
8	sehen							
9	arbeiten							
10	lesen							
11	machen							
12	besuchen							

	Structures With Infinitives							
1	ich mussmachen							
2	ich darfmachen							
3	ich kannmachen							
4	ich sollmachen							
5	ich willmachen							
6	man muss/kann/sollmachen							



#### Subject: German

#### Higher Tier Knowledge Organiser

K	4
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	Sentence Sta	Sentence Starters			Conn	Connectives Intensifiers			Adjectives					
1	meiner Meinung nach				1	und			1	ein bisschen	a bit	1	lustig	
2	meines erachtens				2	aber			2	ziemlich		2	interessant	
3	im Großen und Ganzen				3	denn			3	sehr		3	spannend	
4	auf der einen Seite				4	sondern (ne	eg)		4	wirklich		4	nützlich	
5	aber auf der anderen				5	jedoch			5	echt		5	schön	
	Seite				6	deshalb			6	zu		6	toll	
6	es scheint mir, dass				7	trotzdem			7	SO		7	unglaublich	
7	ich denke, dass				8	außerdem			8	ganz		8	langweilig	
8	ich würde sagen, dass				9	weil/da				Exclama	tions!!!			
9	obwohl ich weiß, dass					dass			1	Wie		9	anstrengend	
10	ich glaube, dass				11	obwohl				Schade!		10	schwierig	
11	ich muss sagen, dass				12 wenn				2	Wahnsinn!		11	teuer	
	Signposting Time Frames			Frequency					12	billig				
1				jede	en Tag	<u>. , ,                                 </u>					Fancy	Phras	es	
2	letzte Woche		2	+	ınd zu				1	es hat eine M	enge Spaß gemac	ht		
3	gestern								2	ich habe mich	wirklich amüsiert	:		
4	normalerweise		3	einr	nal pro	Woche			3	es hat sich wi	rklich gelohnt			
5	gewöhnlich		4	zwe	imal pro	o Woche			4	das hat mir ge	efallen			
6	dieses Abend		5	nie					5	ich hätte nie g	gedacht			
7	nächste Woche		6	imm	ner				6	je (heißer), de	esto besser			
8	nächstes Jahr		7	oft					7	ich freue mich	n schon darauf			
9	in der Zukunft		8	mar	nchmal				8	es wird bestin	nmt viel Spaß			

machen



Subject: Geography Topic: Resource Management



A. Food, water and energy are fundamental to human development.							
1	Food	Food provides calories and energy for people to be healthy and able to work. This is essential for economic and human development.					
2	Water	Used for survival, washing, food production, industry. Clean, safe water enables development and allows people to break free from the cycle of poverty.					
3	Energy	Traditionally we get energy from oil, coal and wood. Many different sources are generated by changing technology. Used for electricity production, heating, transport and for water supply (e.g. wells). Supports industrialisation and development.					

	B. The changing demand and provision of resources in the UK create opportunities and challenges.							
I	HIC's surplus	HIC's have a greater consumption of Food, water and energy. They don't always have a ready supply within their country but are able to purchase this using their wealth.						
2	LIC's deficiet	LIC's have a lower consumption of Food, Water and Energy as they are unable to compete with the wealth. In some LIC's food is exported to HIC's as they can afford to pay higher prices.						
3	Energy mix	Due to the high consumption of fossil fuels HIC's have a greater carbon footprint. However as fossil fuels decrease the energy mix of these countries will change as they are forced to use alternative sources.						
4	Carbon foot print	As a result of higher consumption of food, water and energy HIC's have a higher carbon footprint.						

	succes						
		and for food resources is rising globally but oly can be insecure, which may lead to conflict.					
I	Food inequality	The global supply of food is uneven. Countries like China and India have high agricultural outputs. The USA, Brazil and UK also achieve high outputs due to intensive farming methods and high capital investment. Countries in sub — Saharan Africa produce less food because they have unreliable rainfall, drought, low investment and lack of education and training.					
2	Food insecurity	Many LIC's suffer from food insecurity which can lead to problems such as, famine, undernutrition, soil erosion and social unrest.					
3	Famine	Famine is a widespread food shortage of food often causing malnutrition, starvation and death. Famine in Somalia 2010-2012258,000 people died. 18% of child population died due to lack of food. Risng food prices can make this matter even worse.					
4	Undernourished	This is the lack of a balanced diet. It is a major public health problem in sub-Saharan Africa. Diets in these regions are frequently lacking in protein, carbohydrates, vitamins and minerals.					
5	Soil erosion	This involves the removal of fertile top soil layers by wind and water as a result of overgrazing, deforestation and over cultivation.					
6	Social unrest	The 21st century has seen lots of social unrest- especially in North Africa and the Middle East. 'Food riot' correspond with high prices in food.					
	D. Diff	ferent strategies can be used to increase food supply.					
1	Thanet Earth	There are 7 greenhouses, each the size of 10 football pitches which are used to grow salad, pepper, tomatoes and cucumbers throughout the year. It uses hydrophonics (when plants are grown in nutrient solutions) It aims to be sustainable- each greenhouse has its own power station to provide heat and lighting and collects rainwater from the roofs to provide water.					
2	Jamaplur	Rice-fish culture is where small local fish are introduced to the paddy fields. The small fish are safely hidden from predators (birds)among the rice plants. The fish provide a natural fertilizer with their droppings, eat insects and pests and help to circulate oxygen in the water around the rice plants.					



Subject: Geography

Topic: Resource Management



	DE	ecktoot				
A. Food, water and energy are fundamental to human development.				od resources is rising globally but e insecure, which may lead to conflict.		
1	Food		I	Food inequality		
2	Water					
			2	Food insecurity		
3	Energy		3	Famine		
			4	Undernourished		
	B. The resource	changing demand and provision of s in the UK create opportunities and challenges.	5	Soil erosion		
I	HIC's surplus		6	Social unrest		
2	LIC's deficiet		D. Different strategies can be used to increase food supply.			
			1	Thanet Earth		
3	Energy mix					
4	Carbon foot print		2	Jamaplur		



Subject: Geography Topic: Resource Management Year Group: 11



I) Agribusiness	Application of business skills to agriculture.
2)Carbon footprint	A measurement of all the greenhouse gases we individually produce, through burning fossil fuels for electricity, transport etc, expressed as tonnes (or kg) of carbon-dioxide equivalent.
3)Energy mix	The range of energy sources of a region or country, both renewable and non-renewable.
4)Food miles	The distance covered supplying food to consumers.
5)Fossil fuel	A natural fuel such as coal or gas, formed in the geological past from the remains of living organisms.
6)Local food sourcing	A method of food production and distribution that is local, rather than national and/or international. Food is grown (or raised) and harvested close to consumers' homes, then distributed over much shorter distances.
7)Organic produce	Food which is produced using environmentally and animal friendly farming methods on organic farms. Artificial fertilisers are banned and farmers develop fertile soil by rotating crops and using compost, manure and clover. It must be free of synthetic additives like pesticides and dyes.
8)Resource Management	The control and monitoring of resources so that they do not become depleted or exhausted.
9)The new green revolution	A combination of modern technology, traditional knowledge and an emphasis on farming, social and agro-ecological systems as well as yields, especially in poorer countries. At the same time, it emphasizes alternative approaches and improved farm management and information systems in order to minimise environmental damage from external inputs and benefit poor farmers and marginal areas bypassed by the original green revolution.
10)Undernutrition	This occurs when people do not eat enough nutrients to cover their needs for energy and growth, or to maintain a healthy immune system.
11)Urban farming	The growing of fruits, herbs, and vegetables and raising animals in towns and cities, a process that is accompanied by many other activities such as processing and distributing food, collecting and reusing food waste.

	<u> </u>	succeed				
12) Aeroponics		Growing plants in an air or mist environment without the use of soil.				
13) Biotechnology	organism	The manipulation (through genetic engineering) of living organisms to produce useful commercial products (such as pest resistant crops and new bacterial strains).				
14)Famine		pread, serious, shortage of food. In the worst can lead to starvation and even death.				
15) Food insecurity	affordable	thout reliable access to a sufficient quantity of le, nutritious food. More than 800 million people y day with hunger or food insecurity.				
16)Food security		When people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life.				
17) Hydroponics		od of growing plants using mineral nutrient s, in water, without soil.				
18) Irrigation		water to land in order to supply crops and other ith necessary water.				
19) Permaculture	upon or o	n of agricultural and social design principles based directly using patterns and features observed in ecosystems.				
20)Sustainable develo	without I	Development that meets the needs of the present without limiting the ability of future generations to meet their own needs.				
21) Sustainable food s	natural re quality fo	at is produced in ways that avoid damaging resources, provide social benefits such as good good and safe and healthy products, and contribute economies.				



Subject: Geography Topic: Resource Management



I) Agribusiness	
2)Carbon footprint	
3)Energy mix	
4)Food miles	
5)Fossil fuel	
6)Local food sourcing	
7)Organic produce	
8)Resource Management	
9)The new green revolution	
10)Undernutrition	
II)Urban farming	

	 succeed
12) Aeroponics	
13) Biotechnology	
14)Famine	
15) Food insecurity	
16)Food security	
17) Hydroponics	
18) Irrigation	
19) Permaculture	
20)Sustainable development	
21) Sustainable food supply	



**Subject: History** 

#### **Topic: Britain: Health & the People – Medieval Medicine**



What did Medieval people believe about the causes of disease?			
1	What were supernatural causes of disease?	1. 2.	Disease was sent as a punishment for sins from God. Witches or other supernatural beings cursing people.
2	What were natural causes of disease?	1. 2. 3.	The Four Humours were unbalanced. The alignment of the planets. Miasma – the belief that bad smells caused disease.
3	What were the Four Humours?	1.	Ancient Greek doctor Hippocrates came up with the idea that the body was made up of four liquids: blood, phlegm, black bile, and yellow bile.  These humours needed to be in balance for a person to be healthy.

	How did Medieval people treat disease?		
1	What were common treatments of disease?	1. 2. 3.	Treatments were linked to the believed causes. Rebalance the humours through bloodletting and purging. Herbal remedies.
2	How did religion impact treatments?	1. 2.	Prayer was a common treatment of disease. Flagellants whipped themselves as punishment to try and prevent contracting the Black Death.
3	Where could people go for treatment?	1. 2. 3. 4. 5.	Doctors – they were trained in university but were very expensive Apothecary – these were people who sold medicines. They were also very expensive Barber Surgeons – these were barbers who used their tools to do surgery and dentistry Wise women – these were village healers who used spiritual and herbal treatments. Monasteries – monks had some herbal knowledge but focused on care instead of cure. Their services were free.

	What was Medieval surgery like?		
1	Who perform ed surgery?	1.Most surgery was done by barber-surgeons 2.There were also war surgeons, who treated people wounded on the battlefield 3.Surgeons didn't go to university, but trained as apprentices	
2	What problem s were there with sur gery?	1.Lack of knowledge 2.Pain 3.Infection 4.Bleeding	
3	What were common surgery techniques?	1.Cauterization – this sealed a wound up 2.Amputation was common, especially for battle injuries. 3.Barber surgeons could also deal with dislocated limbs. 4.Trepanation was used to treat a epilepsy and persistent headaches	

	What was Medieval public health like?		
1	What was a medieval city like?	1.Towns and cities were dirty and over crowded 2.Many had open sewers that would overflow 3.Most human waste was collected in cesspits emptied by gong famers	
2	Why were monaste ries cleaner?	1.Monasteries were usually in the countryside away from diseases 2.Monks had a religious duty to be clean 3.Monasteries were usually near rivers which allowed them to have clean water and drainage	
3	What was the Black Death?	<ol> <li>It was an epidemic between 1348 and 1350.</li> <li>It caused swellings, called buboes, in the armpit and groin and was spread by fleas which carry the bacteria.</li> <li>Unsanitary conditions in the towns increased the spread of the disease.</li> </ol>	

Key word	Definition	
Anatomy	The study of the human body	
Barber Surgeon	Medieval barber who practiced surgery and dentistry	
Blood letting	Medieval treatment of removing some blood from a patient by opening a vein or using leeches	
Emetic	Substance that makes a patient vomit	
Humours	4 liquids in the body that must be in balance for a person to be healthy	
Miasma	Bad air/smells – it was believed up until the 19 <sup>th</sup> Century that this was the cause of disease	
Monastery	A place where monks live and work	
Purge	Making a patient be sick in order to balance their humours	

	Key People			
1	Hippocrate s	1.Created the Hippocratic Oath – doctors swear to do no harm		
2	Galen	1.Used scientific theory to diagnose disease     2.Dissected animals, published his works.		
3	John of Arderne	1.Created the Guild of Surgeons within London.		
4	John Brad more	1.Developed an instrument to remove arrows from wounds		
5	Ibn Sina (A vicenna)	1.Wrote an encyclopedia of medicine known as Canon of Medicine		
6	Al Razi	1.Wrote over 150 books. 2.Challenged some of Galen's ideas.		



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#### Topic: Britain: Health & the People – Medieval Medicine



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Key word	Definition
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Key People					
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6	Al Razi				

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#### **Subject: History**

#### Topic: Britain: Health & the People – Renaissance



	What were Renaissance beliefs about the causes of disease?							
What stay ed the same ?		1.People still believed strongly in the Four Humours theory 2.God was still believed by some to be the cause of illness 3.Miasma was still believed to cause illnesses						
2	What cha nged?	1.The scientific method developed as people tested new ideas 2.Some progress in understanding of anatomy, however the church suppressed the writings that disagreed with Galen						

I	What was Renaissance surgery like?						
	1	Why did surgery i mprove?	1.Gunpowder and cannons meant that soldiers got new wounds.     2.Field surgeons had to develop new techniques to treat them.				
		How did surgery i mprove?	1.Greater understanding of anatomy due to the work and books by Vesalius and Harvey 2.Better training for doctors and surgeons				
	2	Impact of Paré	1.Army surgeon Paré ran out of oil to cauterise gunshot wounds and created a new lotion that had soothing anesthetic properties 2.He designed over 50 kinds of false body parts and made them for wounded soldiers 3.Paré experimented with ligatures to stop bleeding as an alternative to cauterisation				
	3	Impact of Hunter	1.Hunter set up his own anatomy school and surgical practice 2.His various books were widely read and he experimented with new techniques in surgery e.g. treating aneurysms 3.Hunter raised public interest in science with his collection of plant and animal species				

		Wha	t was Renaissance public health like?			
1 What stayed the same?		What stayed the same?	Towns were still dirty and overcrowding     Little government involvement in people's health and living conditions			
	monasteries 2.Hospitals were set up by charities and London 3.Some hospitals were more specialist 4.Hospitals would not admit people with		2.Hospitals were set up by charities and local councils e.g. St Bartholomew's in			
3		Preventing disease	1.Inoculation against the deadly disease smallpox was dangerous and expensive 2.Through experimentation, doctor Edward Jenner proved that infecting someone with cowpox would protect them from smallpox. 3.Some rejected his work because he wasn't a well known doctor, it wasn't profitable for doctors and he couldn't explain how it worked 4.The government gave Jenner £30,000 to develop his idea and in 1852 made vaccination compulsory			

	Ho	v did Renaissance people treat disease?			
1	What were treatments like?	Treatments still focused on balancing the four humours     Many still relied on supernatural cures e.g. people believed the King's touch could cure scrofula			
2	Where could pe ople get treatments?	1.People stopped using the church, but still visited wise women, doctors and apothecaries 2.Quacks - Travelling salesmen who would sell homemade medicines. These usually had no medical basis. 3.Herbals - Books, printed cheaply which contained herbal remedies			
3	How did doctors' training change?	1.In a few hospitals, doctors were trained on the wards 2.Training emphasised the importance of observation 3.More doctors did dissections 4.In 1645 the Royal Society was set up for physicians to experiment and share ideas			
4	What new treatments were there?	1.Rhubarb from Asia was used to purge the bowels     2.The bark from a South American tree made quinine and helped to treat fever and malaria     3.Tobacco was used to treat toothache, joint pains and for plague protection			

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	Key word	Definition			
Anatomy		The study of the human body			
Cauterisation		Using a heated iron or hot oil to seal a wound			
Ce	sspit	Pit for the disposal of liquid waste and sewage			
Epi	idemic	Spread of a disease to a large number of people			
lm	munity	Protection from a disease			
Inc	oculation	Using a weakened but liie germ of a disease to help a person build up immunity			
Lig	atures	A thread used to tie blood vessels during surgery			
Qu	arantine	Isolating a sick person or household to stop the spread of a disease			
Sm	allpox	An infectious disease common until the 18th Century			
Va	ccination	Using the dead germs of a disease or			
		Key People			
1	Vesalius	Increased anatomical knowledge through dissections and proved Galen wrong			
2	Paré	1.Developed new surgical techniques and treatments			
3	Harvey	Discovered how the heart circulated blood around the body and proved Galen wrong			
4	John Hunt er	1.Set up surgical schools and raised public interest in science			
5	Jenner	1.Developed the first vaccination against smallpox			

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#### Subject: History Topic: Britain: Health & the People – Renaissance



What were Renaissance beliefs about the causes of disease?  1 What stay		-	Wh	at was Renaissance public health like?	Н	Key word	Definition
		1	What stayed the same?		1	Anatomy	
What stay ed the same						Cauterisation	
?		2	Hospitals and care		$\left\{ \left[ \right. \right]$	Cesspit	
What cha						Epidemic	
					$\prod$	Immunity	
What wa	as Renaissance surgery like?	3	Preventing disease			Inoculation	
Why did surgery i						Ligatures	
improve.			How	did Renaissance people treat disease?		Quarantine	
		1	What		1	Smallpox	
How did surgery i			like?			Vaccination	
mprove?		2	Where could pe		┪┋		Key People
			ople get treatments?			1 Vesalius	
Impact		3	How did doctors'		1	2 Paré	
of Paré			training change?			3 Harvey	
Impact of Hunter		4	What new treatments were			4 John Hunt er	
			there?			5 Jenner	
	What stay ed the same ?  What changed?  What was was a same of the	what stay ed the same ?  What changed?  What was Renaissance surgery like?  Why did surgery improve?  How did surgery improve?	Causes of disease?  What stay ed the same ?  What changed?  What was Renaissance surgery like?  Why did surgery improve?  Impact of Paré  Impact of Paré  Impact 4	What stay ed the same?  What cha nged?  What was Renaissance surgery like?  Why did surgery improve?  How did surgery improve?  Impact of Paré  Impact of Hunter  What stayed the same?  I what stayed the same?  Preventing disease  What were treatments like?  Where could pe ople get treatments?  A How did doctors' training change?	What stay cd the same	What stayed the same?	what stay of disease?  What takey of the same?  What changed?  What the same regel?  What was Renaissance surgery like?  Why did surgery improve?  How did Renaissance people treat disease?    What was renaissance was read to be a surgery like?

## Power Beckfoot エのロ 20 mins for me

around your independent learning. Little and often is the key! Beckfoot Power Hour is a way to help you build positive routines

minutes of Revise Like a Beckfooter activities in your ILB; and at least 20 minutes of something you really enjoy as a reward at the end. Your Power Hour should include three chunks: 20 minutes of reading; 20

support your mental wellbeing at the same time. Building habits like this will boost your academic performance and help

We would suggest 5 times a week is the optimum amount. Have a go at building a Power Hour into your day as often as you can.

# Flash Cards



#### knowledge Identify

creating flash cards What are you

organizer? knowledge Do you have your

feedback. look at previous Use your book to from whole class misconceptions



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Feedback



## Colour coding

Designing

Use different organization NOT This helps with for different topics. coloured flash cards

flashcard. 1 Question per

prompt, so that you Use a one word

gaps in your knowledge.

clearly shows the out loud. This really Or say your answers down, then check. Write your answers

answer questions. No extended

concise and clear. Making them

can recall as much re-read. Do not just copy &

as you can.

each time you use Shuffle the cards

system to use flash Use the Leitner

cards everyday.

you look back at your answers? performed when How have you

in more detail? Is there anything you need to revisit

area in specific extended exam questions knowledge in that onto applying secure? If so, move Is your knowledge

answer out loud or write it down before checking it against the card, so you are truly testing if Avoid answering the questions in your head: research shows that when you read a question and answerit in your head, you aren't actually testing your knowledge effectively. Say the you can explain the answer properly

### you have made Use this table to help you flash-card templates for you to use overleaf. and used this half term. There keep track of the flash are cards some

Day 5	Day 4	Day 3	Day 2	Day 1	Week 1
					Week 1 Which Subject/Topic?
Day 5	Day 4	Day 3	Day 2	Day 1	Week 2
					Week 2 Which Subject/Topic?

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# Mind-Maps











Identify knowledge

> Identify sub topics

2

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Branch off

Use images & colour

Put it somewhere visible 5

Place the main topic in the centre of your page and identify sub topics that will branch off.

Select a topic you wish to revise. Have

your class notes/knowledge organisers ready.

> Branch of your sub topics with further detail.

Use images and colour to help topics stick into your memory.

Place completed mind maps in places where you can see them frequently.

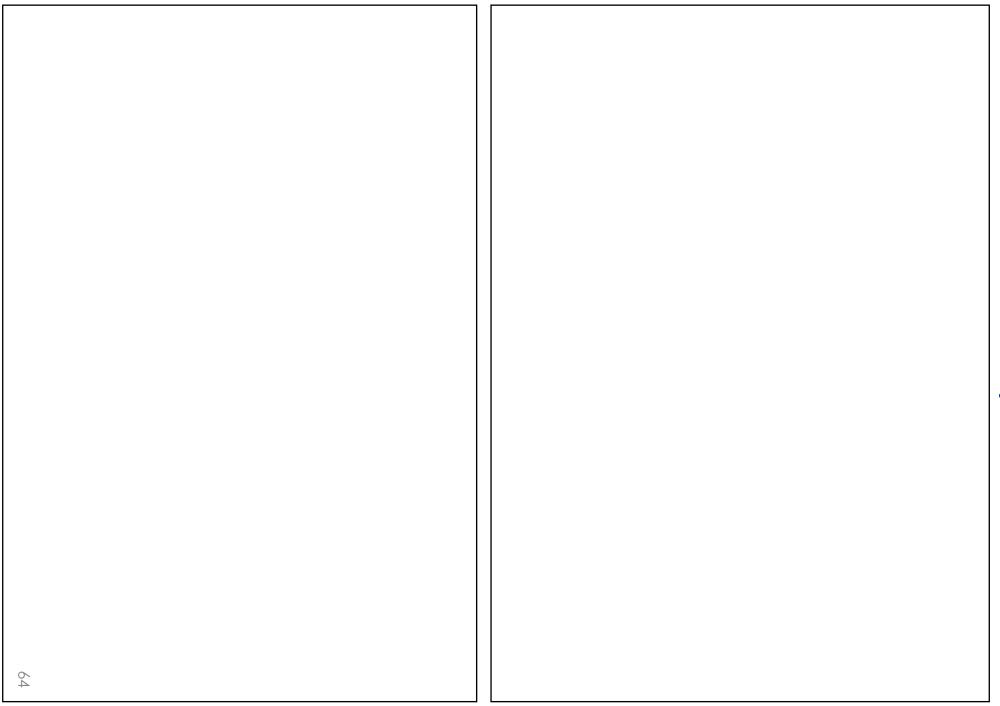
and connect areas of a topic/subject. If you overcrowd the page, you lose the point of the Avoid using too much information: mind maps are designed to summarise key information mind map and will find it harder to visualise the information when trying to recall it

Try not to fill the page with too much writing.

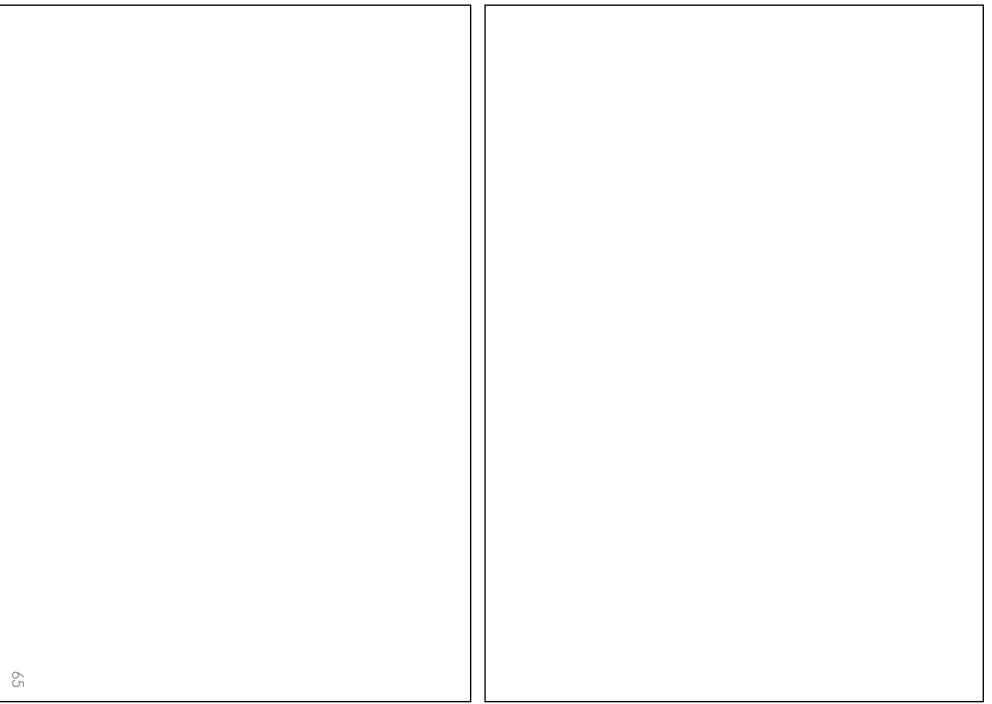
## you have are Use this table to help you keep track of the mind-maps some mind-map templates for you to use overleaf. completed and checked this half term. **There**

Day 5	Day 4	Day 3	Day 2	Day 1	Week 1
					Which Subject/Topic?
Day 5	Day 4	Day 3	Day 2	Day 1	Week 2
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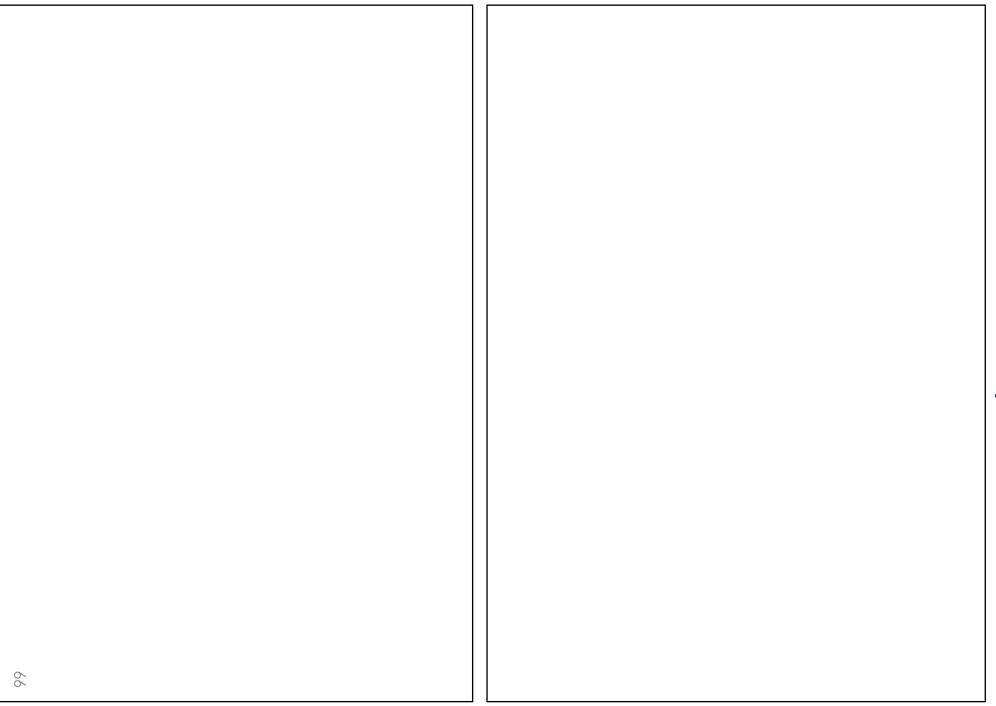
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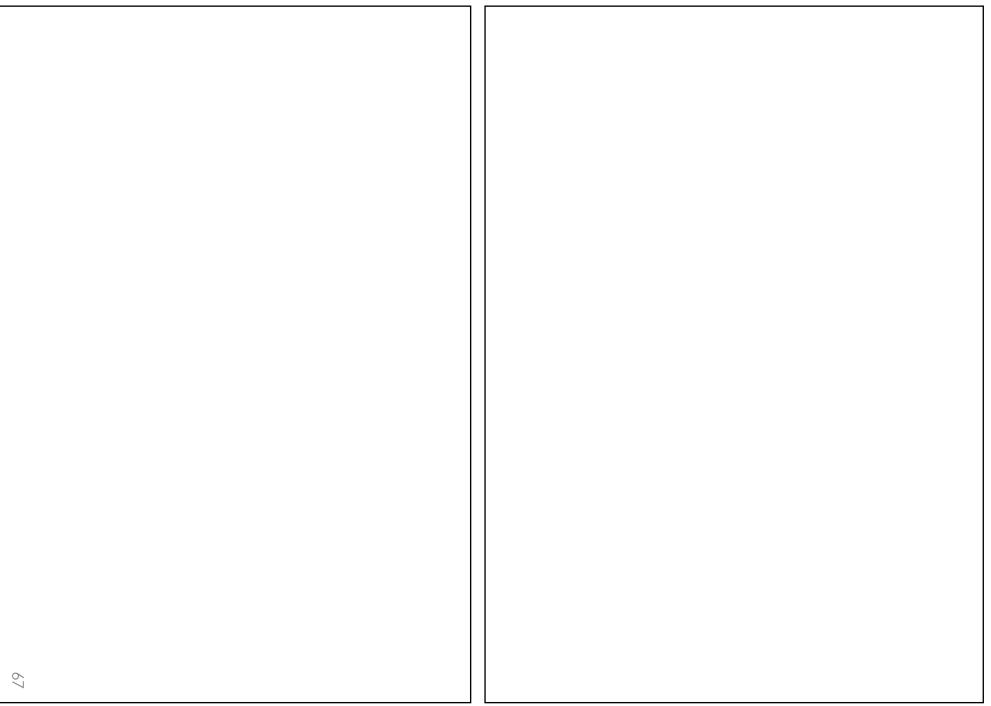
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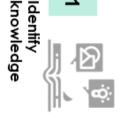
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# **Brain-Dumps**











Check



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understanding

Store and compare

shorter period of time or add more complete the same topic try and information in amount of attempt the same Next time you

information.

Compare your brain dump to your K/O or book and check understanding.

> dump safe and revisit Keep your brain

cover.

everything you can remember about that

to highlight/underline

use different colours remember any more

words in groups.

prompts) topic. (with no

limit (e.g. 10 minutes) Give yourself a timed

information.

This categories/links

Take a blank piece of paper/white board

you cannot

Once complete and

and write down

area you want to knowledge/topic Identify the

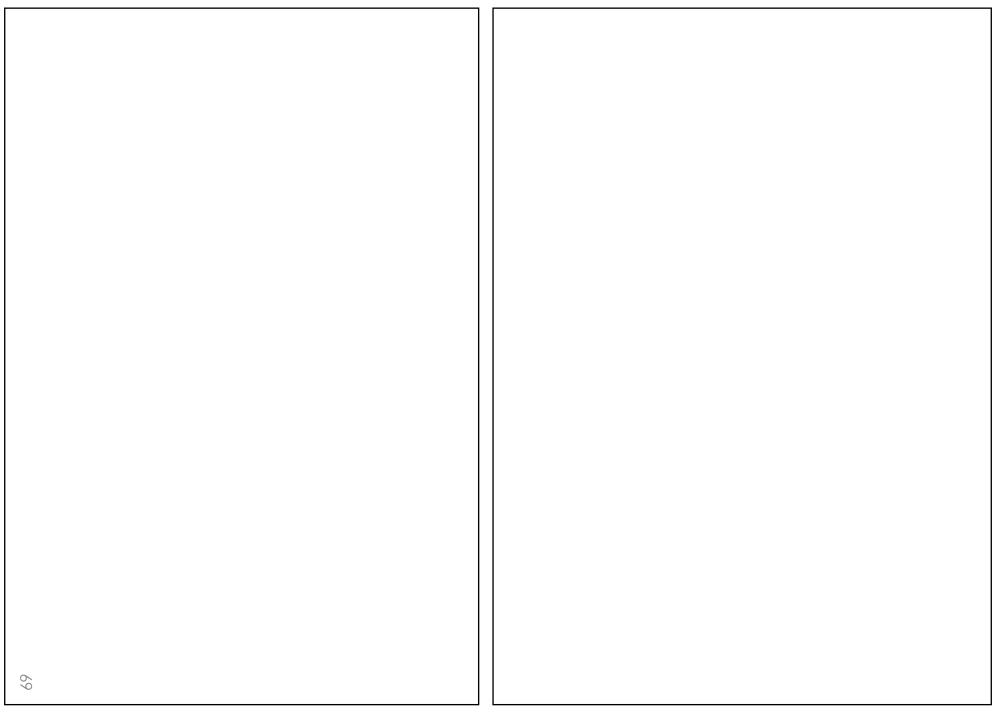
a different colour. information you have missed (key words) in Add any key

Brain dumps are a way of getting information out of your brain.

## Use this table to help you keep track of the brain-dumps are some brain-dump templates for you to use overleaf. you have completed and checked this half term. There

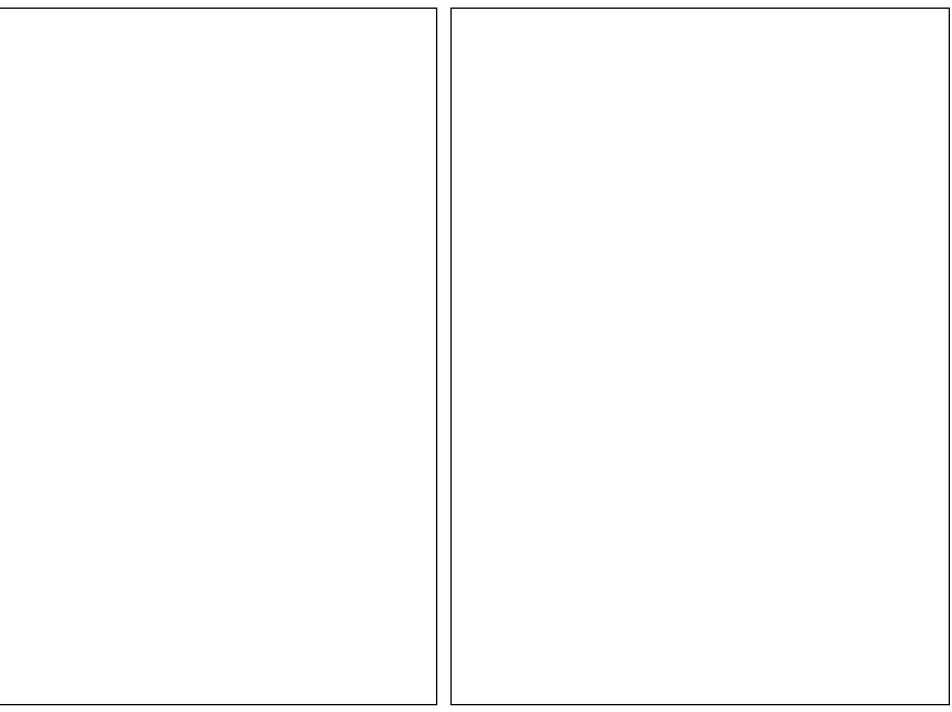
Day 5	Day 4	Day 3	Day 2	Day 1	Week 1
					Which Subject/Topic?
Day 5	Day 4	Day 3	Day 2	Day 1	Week 2
68					Week 2 Which Subject/Topic?

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<b>Brain-Dumps</b>	

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# Revise Like a Beckfooter Rewards

in life. we whole-heartedly believe that you deserve to have the best chances academic success. We have high expectations for everyone because Great independent learning and revision are vitally important for your

are as follows: Our minimum expectations of KS4 students for their independent learning

- strategy (on Class Charts) 5 revision tasks per week using the specified revise like a Beckfooter
- You choose the subjects we set the tasks
- Bring your ILB to school every day

Charts in the same way as a missed homework. If you do not meet our minimum expectations, this will be logged on Class

this, and we want to support and celebrate that achievement with you. points you will receive The more independent learning/revision you do, the more Class Charts We also recognise that often, students will want to do even more than

expectations: their independent learning/revision and go above and beyond The following rewards are available for those students who commit to

