enjoylearnsucceed Holf-Term N

Beckfoot School And Expert Learners Knowledgeable

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Name:....

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Tutor Group:.....

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Contents

- Homework Instructions
- Independent Learning Instructions
- Maths knowledge organisers and Independent Learning
- English knowledge organisers and Independent Learning
- Science knowledge organisers and Independent Learning

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- Read Like a Beckfooter
- Revise Like a Beckfooter
 Reflect Like a Beckfooter
- Communication Pages

What should you be working on each week?

Homework:

- Your teacher will set you 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:

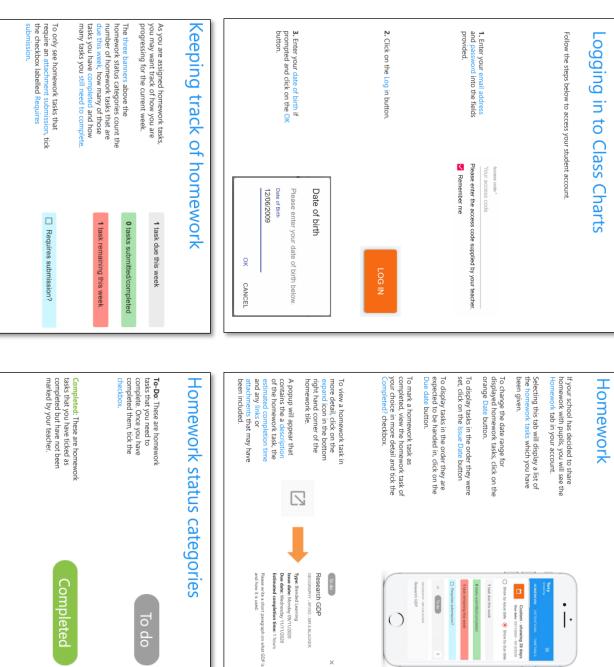
- Link It, Map It, Shrink It' each day You should spend at least 20 minutes doing independent learning, using 'Quiz It,
- Your teacher will remind you of the topics and the tasks to do

Homework Instructions

All of your Homework will be set by your teachers using the Class Charts system.

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- In the next few pages, you will find instructions for how to access Class Charts that you meet all your deadlines. You should check Class Charts every day to make sure you are up to date, and
- and how to complete your homework assignments in each of your subjects



If you are viewing the Homework tab via a desktop or laptop, expanding a homework status category will display a table overview of each homework task for the selected date range. \square > Create a poster o French food To do Write a soliloquy ß rch GDP rork t 9 Mr J Kato © Teacher [↑]⊥ Mr A Blacker Mrs A Abell 7YEL/Fr 8y/En2 8F/Gg +* Eson Friday 06/11/2020 Tuesday 10/11/2020 Monday 09/11/2020 Issued \uparrow_{\downarrow} Tuesday 17/11/2020 Thursday 19/11/2020 vveuriesuay 11/11/2020 [™]_-() Estimated time ₁ hour 45 30 Blended Learning ø [] Feedback [†]⊥ ω

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

Not submitted

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

Submitted

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

Homework Instructions: Maths

		4. To acces hand co topics a	Trabanonetry (The Very War	3. Your assig complete:	2. Login: y Passwor	🚫 Wonde Login			Login	1. Follow t	Ma Na	
3	A Matrix Matrix	To access revision material, click on the videos section in the top right. hand corner. Here you can use the search function to look at different topics and try extra questions for revision.	HW HIGhan	A4 that Shoung 41 Tupes - Type Autop	Your assignment will be on the login page! Select an assignment to complete:	Login: your full Beckfoot email address Password: <u>beckfoot</u> (you can change this)	igin 🔓 Google Login	Password	Username		1. Follow the link: http://new.mathswatch.co.uk/vle/	HOW TO GUIDE	
		ck on the videos secti the search function t for revision.	11/11/2021	el Dr. Assgred Due	login page! Select ar	address hange this)	4				thswatch.co.uk/vle/	HOW TC	
the state of the s	and these	ion in the top <u>right</u> to look at different	CE & 00.00	NalAcripo	n assignment to		View Demo Login	Forgot Password?		×) GUIDE	

- each week Homework in Maths is set on maths watch
- week complete the assignment set for you every You should log in to maths watch and

Homework Instructions: Science

Science Home Learning Instructions

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Please follow the instructions below to access your science home learning.

Remember you are expected to complete at least one quiz per week.

- ω N -Log into Microsoft Teams using your school log in Go to assignments and click on the Carousel Learning quiz set by your teacher A window like the one below will pop up (if it doesn't, copy and paste the link into your
- internet bro vser

Organisation so far...



4 r0 Type your first name and last name as it is written on the register to log into the quiz Click on 'revise' and use 'look, cover, write and check' to go through the flash cards like the one below. Use your knowledge organiser to help you.



6.

All the resources you need will be here

3. Select the relevant half

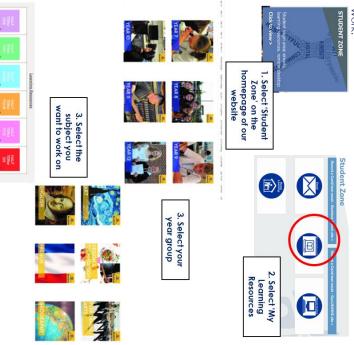
Term.

Homework Instructions: English

- scheme. booklet will be provided for each Every half term, a home learning
- each task in them. They will have the instructions for
- deadline your teacher gives. Please follow them and complete the tasks for the

How to access My Learning Resources

My Learning Resources is an online space where you can find all your lesson PowerPoints, knowledge organisers, quizzes and more. This will help you to learn independently and catch up any missed work.



Independent Learning: How to Quiz It



- LOOK:
- Read through 3-5 items from you Knowledge Re-read if you need to Organiser (bullet points, equations, facts etc



WRITE:

- 3-5 items exactly. In your blank Knowledge Organiser, write out the
- Use a blue or black pen

Auger Barres

COVER:

can only see the blank version (no cheating!) Turn your Knowledge Organiser over so that you



CHECK:

- Uncover your Knowledge Organiser
- word by word Using green pen, check your writing/drawing
- this is the most important part of the process Tick every correct item and correct any mistakes

Independent Learning: How to Ν - Link It

- Choose 3-6 items from your knowledge organiser
- Write 3 sentences to show how these things link together

You could:

Compare and contrast:

- < x is similar to/different from because...
- × is more/less ... than y
- because...

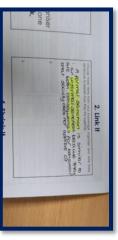
Cause and effect: x happens because of y

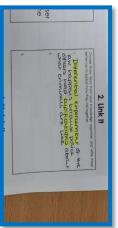
x and y work together to produce z...

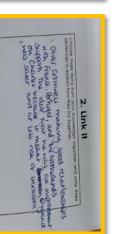
• Support/refute: because x supports the ideas of y

because. x refutes the ideas of y

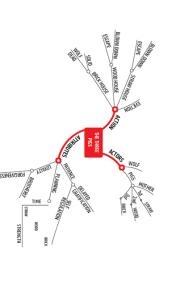




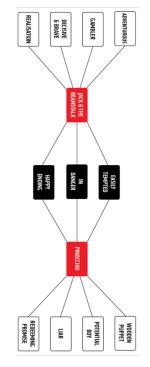




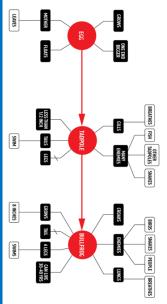
Independent Learning: How to - 3 Map It



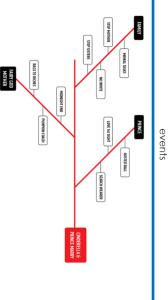
Mind-maps are useful if you want to chunk information or organise it into categories. In this example, the central idea is the 'The Three Pigs' and each branch is a theme within the story



Double-sprays are useful if you want to show similarities and differences of information. In this example, the black boxes show what 'Jack & the Beanstalk has in common wit 'Pinocchio'. The white boxes show what is different about the two stories.

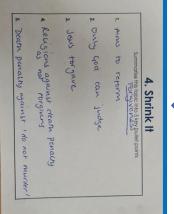


Flow-sprays are useful if you want to show the events that happen in a particular sequence. In this example, the red boxes show the main event in the lifecycle of bullfrogs, and the order they happen in. The black and white boxes show what factors contribute to these main



Fishbone diagrams are useful if you want to show causes and effect. In this example, the white boxes are causes of the Prince and Cinderella getting married; the black boxes show how the causes have been categorised; and the red box shows the effect itself









1. Skim over the Knowledge Organiser



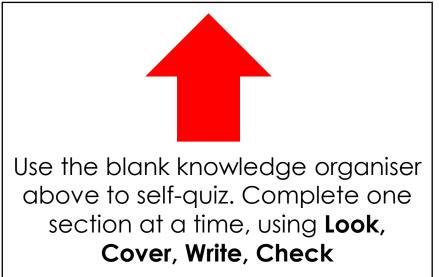


3. Rank your chosen points in order of

importance

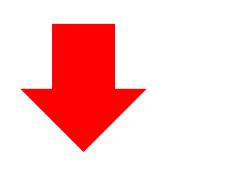
		00-	Subject: Maths	Ter	m: Half term 2	Page I	Year C	Group: I I F	enjoy
Al	Bed gebra:Working	c kfoot g with syml	bols	1	Number: Percent	ages		eometry: A rea and	Perimeter
I	Collecting like terms	$8x^2 + 5x -$	$x' + 8x^2 + 2x - 10 =$ 3 cannot be collected together] [One quantity as a % of another	Find 30 as a % of 78. 30/78×100= 38.5%	1	Circumference Perimeter	∏X Diameter
			d or subtracted)		% increase	Increase 30 by 25%	2	Parallelogram Area	Base X perpendicular height
2	Substitution	x=8 and y	ne letters with numbers. =-2 Find 3x+2y <-2) = 24-4=20		and decrease	30 x 1.25= 37.5 Decrease 40 by 35% 40 x 0.65= 26	3	Trapezium Area	(a+b) x perpendicular height / 2
3	Expand	Multiple th	ne outside of the brackets		Find a %	Change Original × 100	4	Triangle Area	Base X perpendicular height / 2
	single brackets	•	the inside.) = 3x - 9		Compound interest	Original $A = P(1+i)^{n}$ $A = \text{final amount including principal}$	5	Parts of a circle	circumference
4	Expand double brackets	(x - 9) (x ² + 6x -				P = principal amount <i>i</i> = interest rate per year <i>n</i> = number of years invested			sector
		Simplify:		Ra	tio and Proport	ion: Ratio			chord segment
5	Factorise	4x + 3	2 = 4(x+8)		Relationship between fractions and	5 blue sweets 2 red <u>Ratio</u> 5:2 Fraction of blue 5/7	6	Circle Area	$\frac{i_{angent}}{\prod X Radius^{2}}$
6	Factorise quadratics		2		ratio	Traction of blue of			
	4		7x + 12 3)(x + 4) numbers that X to give 12	2	Direct proportion	$y \propto x$ y = kx for a constant k			
			and + to give 7			y - ha for a constant h	(

	ୁ ସିପ୍ରି Beckfoot	Subject: Maths	Tern	n: Half term 2 P	Page I	Year G	Group: I I F	enjoy learn succeed			
Al	gebra:Working with sym	bols	N	umber: Percenta	ges	Ge	Geometry: Area and Perimeter				
I	Collecting like terms			One quantity as a % of another		1	Circumference Perimeter				
			2	% increase		2	Parallelogram Area				
2	Substitution			and decrease		3	Trapezium Area				
			3	Find a %		4	Triangle Area				
3	Expand single					5	Parts of a circle				
	brackets		4	Compound interest							
4	Expand double brackets										
			Rat	io and Proportio	n: Ratio						
5	Factorise			Relationship between		6	Circle Area				
6	Factorise quadratics			fractions and ratio							
			2	Direct proportion							

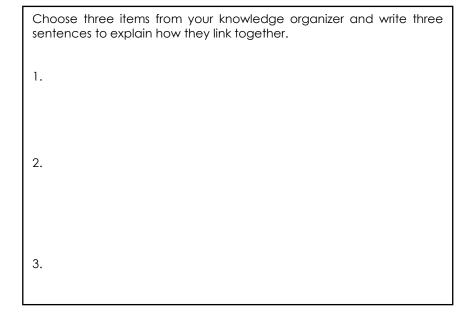


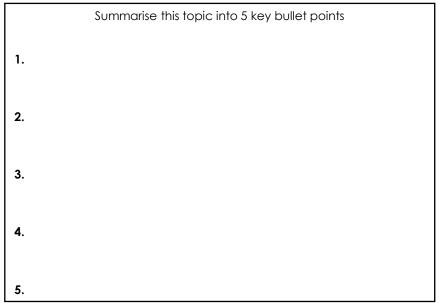
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Use the space on the next page to create a mind-map or diagram to illustrate the knowledge from this topic.



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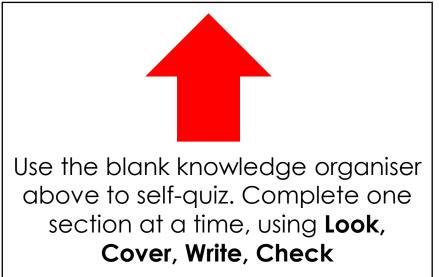






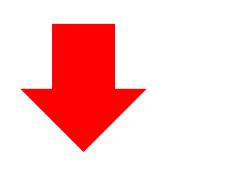
	ب_آگ Beckfoo	ot	Subje	ct: Ma	ths		Tern	n: Ha	alf term 2 Page	2	Yea	r Group: I I F	enjoy learn succeed
Alg	ebra: Linear grapl	hs						Stat	istics: Averages		Key	/ocabulary	
I	Draw the graph y=3x+4	X y	-2 -2	-1 1	0	1 7		I	Mode	Most common number in a data set	I	Rhombus	A rhombus looks like a square that has fallen over All sides have equal length.
	y = mx + c	curv	gradier ve is y interc					2	Median	The middle number when all numbers are in order			Opposite sides are parallel, and opposite angles are equal (it is a Parallelogram).
2	Gradient of a	- · ·) oh cross nx+c (m			nt)	_	3	Mean	Add all the data up and divide by	2	Quadrilateral	The name given to any 4 sided 2D shape.
Z	line) 	//							how many there are	3	Interior	Inside Interior angle: angle inside
			/		Chang	je in Y		4	Range	Highest value –			the shape.
			Chang	ge in X			5 Mean from a	Mean from a	lowest value Create a fX	4	Polygon	Any 2D shape with straight lines	
				46.5.5	X				frequency	column and multiply x by the	5	Sum	Another word for add
		To calculate the gradient: m=y/x If m is the same. The lines are parallel				Lable	frequency Add the answers	6	Expression	Combination of different terms with no equal sign			
3	Parallel lines						together then divide by the total	7	Quadratic	Contains the term x ²			
										frequency	8	Proportion	Part of a whole.

	୍ର ସ୍ଥିତି Beckfoot	Subject: Maths	Term: H	Half term 2 Page 2		Year	Group: 11F	enjoy learn succeed
Alg	ebra: Linear graphs		St	atistics: Averages	К	ley Vo	ocabulary	
I	Draw the graph y=3x+4		1	Mode	1		Rhombus	
	y = mx + c		2	Median	2		Quadrilateral	
			3	Mean	3		Interior	
2	Gradient of a line		4	Range	4		Polygon	
3	Parallel lines							
			5	Mean from a frequency table	5		Sum	
					6		Expression	
					7		Quadratic	
					8		Proportion	

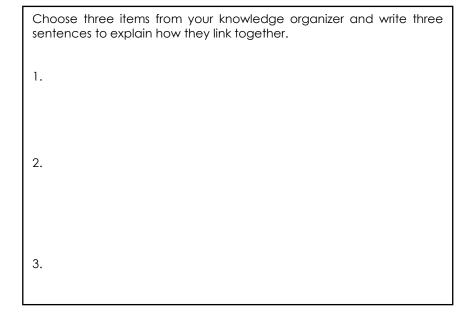


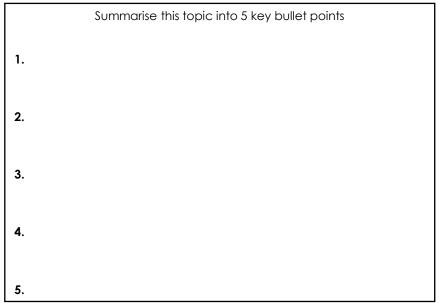
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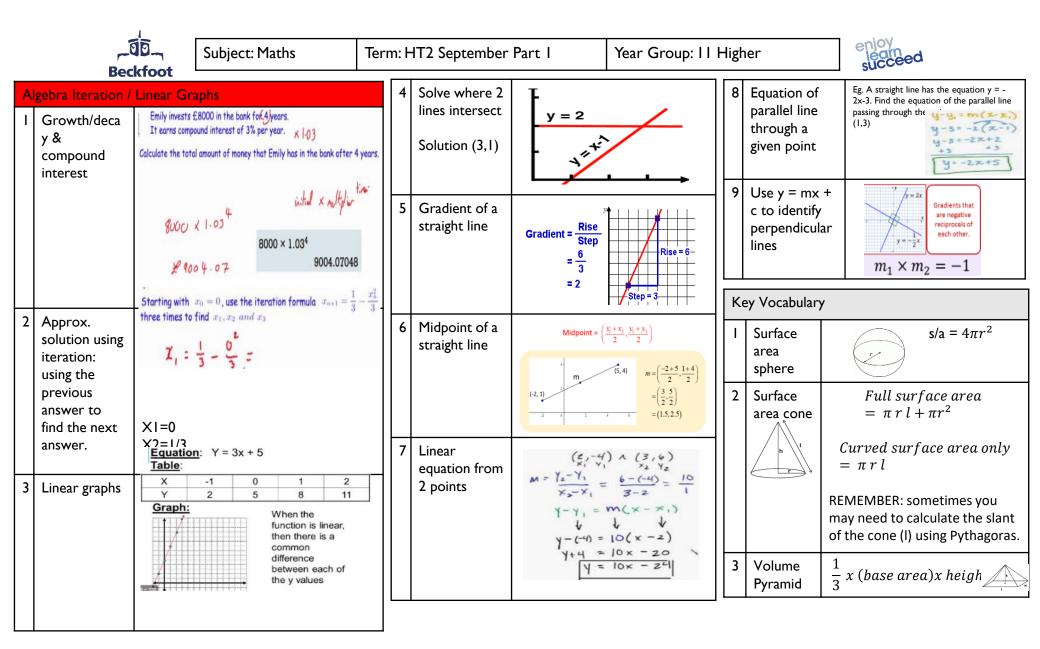


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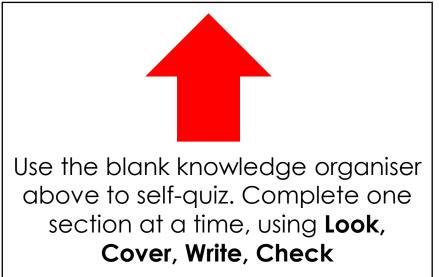






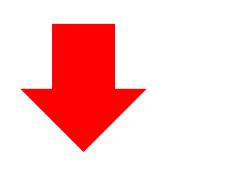


	ریات – Subject: Maths Ter Beckfoot				n: ⊢	IT2 September	Part I	Year Group: 11	Higl	ner	enjoy leath succeed
A	lgebra Iteration / Lin Growth/deca y & compound interest		aphs		4	Solve where 2 lines intersect Solution (3,1)			8	parallel line through a given point	
					5	Gradient of a straight line			9	Use y = mx + c to identify perpendicular lines	
2	Approx. solution using iteration: using the previous answer to find the next answer.				6	Midpoint of a straight line Linear			К 2	Surface area sphere Surface area cone	
3	Linear graphs				-	equation from 2 points					
									3	Volume Pyramid	

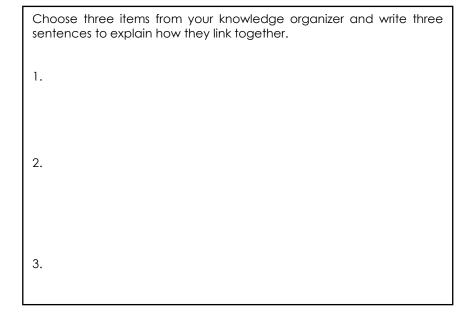


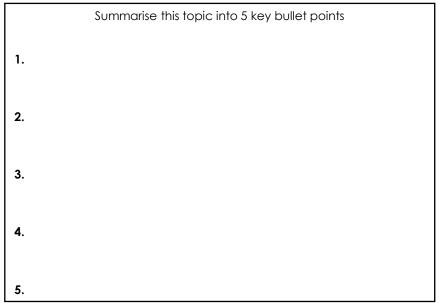
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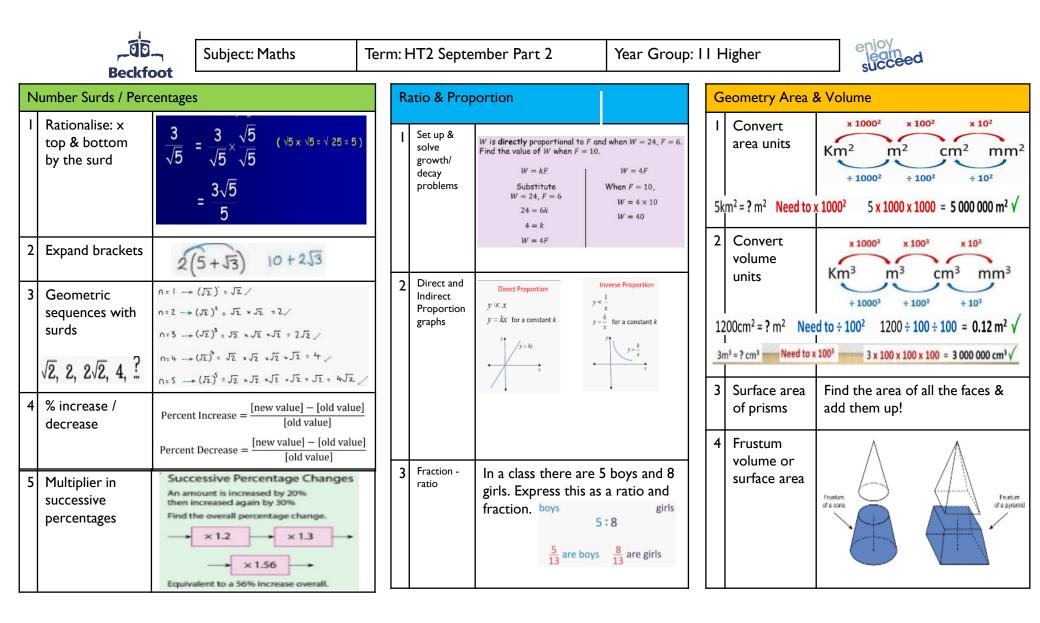


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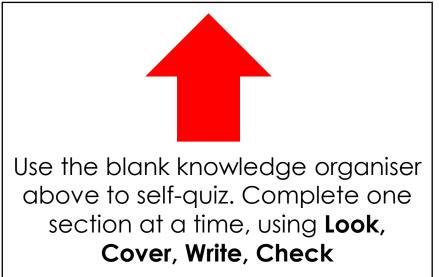






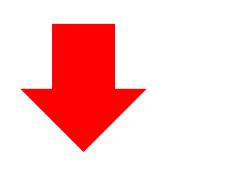


ୁଇ ଅନ୍ୟୁର୍ଯ୍ୟ Beckfoot	Subject: Maths	Term: HT2 September Part 2	Year Group: 11 Higher	enjoy learned succeed
Number Surds / Percenta	ages	Ratio & Proportion	Geometry	y Area & Volume
I Rationalise: x top & bottom by the surd		I Set up & solve growth/ decay problems	I Conve area u	
2 Expand brackets			2 Conve volum units	
3 Geometric sequences with surds		2 Direct and Indirect Proportion graphs		
√2, 2, 2√2, 4, 4 % increase / decrease			3 Surface of pris	
Geciease			4 Frustu volum	
5 Multiplier in successive percentages		3 Fraction - ratio	surface	e area

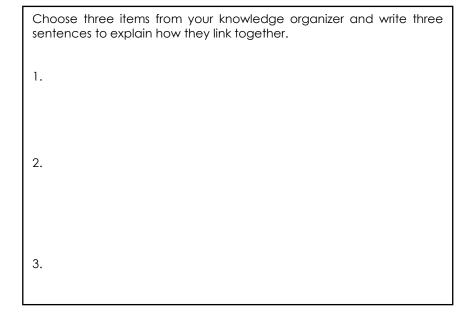


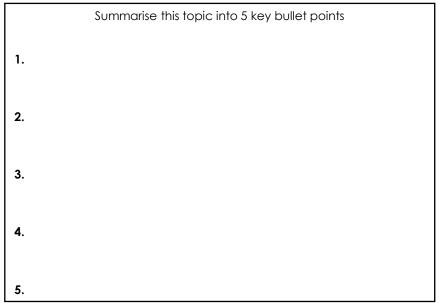
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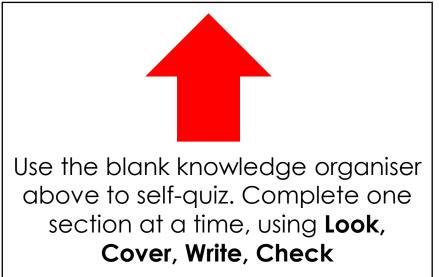






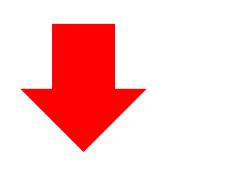
												onioV	
		1	English Literature	l A	An I	Inspect	tor Cal	ls	Year Group:	: 10)	learned	
	eckfoo	ot 🖳	J									succe	
			Plot					Themes			Key Voo	abulary	
I	Act I	men, the Insp	re celebrating Sheila and Gerald's engagement, ector arrives, Birling confesses he fired Eva, Sh or Eva's dismissal from Milwards.		T	R	Social responsibili	ty "If I could help her now, I woul "We did her in all right" (Eric) "We are responsible for each o	、 <i>、</i>	I	Socialism (Political	Collective ownership of	
2	Act 2	refusing Eva a	s to 'rescuing' Eva and then leaves to clear his h id, Mrs Birling argues that the father should be nters the room.		2	Î Î	Age	, ,			theory)	resources.	
3	Act 3	Inspector deli feel guilty, Mr themselves th	o drinking and forceful sex with Eva, Eric admits ivers a polemic speech to the Birlings and exits and Mrs Birling refuse to take responsibility, the inspection was a hoax. The telephone rings, committed suicide and an inspector is on his v	. Gerald returns, Sheila and Eric he Birlings and Gerald convince the Birlings are informed that a	3		Class	womaniser as well as being one		2	Capitalis t	Private ownership of resources.	
	Context Priortlaw Equate in WW/L Socialist and member of the Labour Party. Concerned about social			4	<u></u>	Gender		'em look prettier - but - well, a	3	Didactic	Direct moral instruction.		
I	Priestley Fought in WW1. Socialist and member of the Labour Party. Concerned about social inequalities. Influential in developing the idea of the welfare state.				Ŧ		sort of sign or token of their so "And you think young women unpleasant and disturbing thing	ought to be protected against s? (Inspector)	4	Polemic	Verbal or written attack.		
2	Historical Set in 1912 at the end of the Edwardian era. Titanic sank in 1912. WW1: 1914-1918. WW2: 1939-45. First performed 1945 in Soviet Union. First performed 1946 in Britain.			5		Socialism	"The money's not the important "We are members of one body "Why shouldn't they try for his	." (Inspector)					
3	Political	'Welfare	arty in power in 1912. Labour party in power State' 1945-1951.		6		Capitalism	highest possible prices." (Eric) Key images: Beehive, chain "It's my duty to keep labour co	(0/	5	Patriarchal	Society controlled by men.	
		Suffraget	only men over 21 with property could vote. I' te movement. 1918 all men over 21 and wome ion could vote. 1928: All people over 21 could	en over 30 who met a property	O	(\$)		"A man has to make his own w (Birling) "Probably a socialist or some s Key image: Titanic	, ,	6	Fourth wall	The space between the	
4	Social		% of the population owned 90% of the wealth. . Charities were the only source of help for th					Dramatic Devices				actors and the audience.	
5	Literary	Literary Fits three possible genres: Morality play, Well-made-play, Crime thriller (see Bitesize)		y, Crime thriller (see Bitesize)	I	Dramatic I	Irony The au	dience knows more than characters.					
	Characters			2	Sounds		ell, telephone interrupt the Birlings co	, ,	8	Morality	Principles of right and		
Т	Inspec	tor	Authoritarian, omniscient, influential, so	ocialist , moralist.	3	Lighting		and intimate" to "brighter and harder" ogating morals, cutting through the lies				wrong.	
2	Mr Bir	ling	Haughty, greedy, ignorant, obstinate, eg	gotistical .	4	Entrances/		e tension e.g. Eric walks in just as the	•				
3	Mrs Bi	irling	Conceited, prejudiced, callous, obstina	te, arrogant.		Exits		Gerald's 'exit' in Act 2 prevents his re		9	Caricature	Exaggeration of characteristics	
4	Gerald	4	Charming, deceitful, manipulative, ingra	itiating, static.	5	Props	Photog	raph: All Eva? Symbolic of the faceless	poor that the wealthy pretend not			usually to	
5	Sheila		Envious, petulant, impressionable, repe	ntant.			to see	Sheila's ring as a symbolic of patriarch	al control.			ridicule.	
6	Eric		Reckless, dishonest, culpable, repentan	t.	6	Stage	Indicat	e character attitudes, development, re	ationships setting and mood.				
7	Eva		Vulnerable, impoverished, exploited, sy	mbolic, victim.		directions							

B	_UD	English Literature	An	Insp	pecto	or Calls		Year Group:	: 10		enjoy learn succeed
		Plot					Themes			Key Vo	cabulary
	Act I				~ •	Social					Cabular y
			1			responsibility			Γ	Socialism	
2	Act 2		2	•	• /	Age				(Political theory)	
				'n.	أ (
3	Act 3								2	Capitalis	
			3			Class				t	
				2							
				<u> </u>					3	Didactic	
		Context	4	G		Gender					
	Priestley			¥					4	Polemic	
2	Historical		5			Socialism					
									5	Patriarchal	
3	Political					Capitalism					
			6	G		capitalism					
				{⊈	P				6	Fourth	
									0	wall	
4	Social					[Dramatic Devices				
5	Literary)	T	Drar	matic Iron	ıy					
	,		2	Sour	nds				8	Morality	
	Inspector	Characters	3	Ligh	nting						
2	Mr Birling		4	- Factor	1						
3	Mrs Birlin	-	⁴	Entr	rances/ ts				9	Caricature	
4	Gerald		5	Prop	ps						
5	Sheila										
6	Eric Eva		6		ge ections						
/	Eva									I	I]

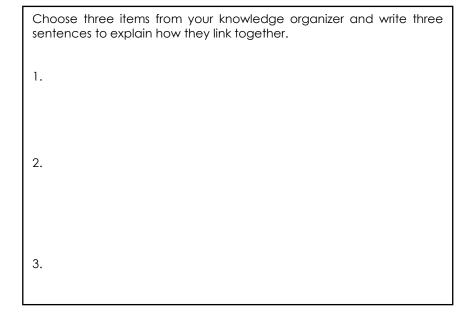


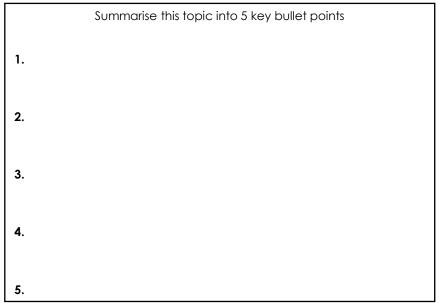
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2. Link It









English Literature

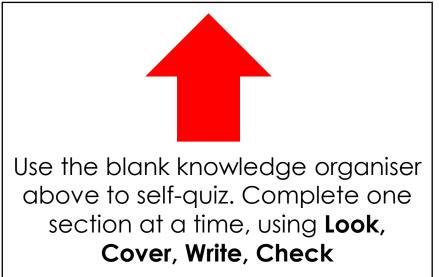
Power and Conflict Poetry

Year Group: 10 & 11



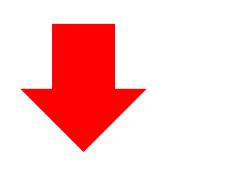
		The Poems:			The Poems:		Key V	ocabulary:
I	'Ozymandia Percy Shelle		9	'Remains' Simon Armitage	A group of soldiers shoot a man who's running away from a bank raid. The narrator doesn't know if the man was armed or not and can't get the man's death off his mind. When back at home, the solider suffers PTSD.	1	Monologue	A monologue poem features a
2	'London' William Bla	Narrator walks round London and describes the misery he sees brought about by the corrupt power of institutions (church, monarchy) over their subjects.	10	'Poppies' Jane	A mother describes her son leaving home to join the army.			single speaker who is a fictional character
3	'The Prelud William	Narrator takes a boat out on the lake. Sees a mountain appear and is overwhelmed by the power of nature compared to		Weir	She fears for his safety and visits a familiar place that reminds her of him.	2	Caesura	Punctuation marks indicate a break in the line of poetry.
	Wordsworth	humans.	11	'War Photographer'	In his dark room, a war photographer develops pictures taken in different warzones. He contrasts his experiences to rural England and people who			Usually occurs in the middle of a line.
4	'My Last Duchess'	Duke shows portrait of his former wife who is now dead. The Duchess was flirtatious and displeased the Duke. We realise he probably had the		Carol Ann Duffy 'Tissue' Imtiaz	seem oblivious to war torn places. Tissue is an extended metaphor for the fragility of life. Literal uses of	3	Enjambment	The continuation of a sentence without a pause
	Robert Browning	Duchess killed. The Duke is planning his next marriage.	12	Dharker	paper are also discussed, such as recording names in the Koran, as well as the fact we are made from tissue, emphasising we are fragile.			beyond the end of a line/stanza
5	'The Charge o the Light Brig Alfred Lord Tennyson			'The Emigree' Carol Rumens	Speaker recalls a city she left as a child. The city has changed and perhaps was a scene of conflict but she protects the memory of her city. It might not be a real place but represents a time/emotion/speaker's childhood.	4	Free Verse	A poem without consistent metre patterns or rhyme scheme.
6	'Exposure' Wilfred Ow	Winter on the front line in WWI. Nature personified as the main enemy and the men can only wait to die. Poem stresses insignificance of humans				5	Rhyme	Correspondence of sound
7	'Storm on t	compared to nature.		'Checking Out Me History' John Agard	In school the narrator was taught British history & not about his Caribbean roots. He contrasts nonsense topics he was taught with admirable figures excluded from history.		, -	between words or ending of words.
1	Island' Seam Heaney			'Kamikaze'	A Japanese kamikaze pilot aborts his mission and when he returns home is shunned. His daughter imagines her father was reminded of his	6	Volta	In a sonnet, the volta is
8	'Bayonet Charge' Ter	Single soldier's experience of a charge towards enemy lines.		Beatrice Garland	childhood and beauty of nature & life whilst on the mission.			the turn of thought or argument.
		Compa	rison	s:		7	Couplet	Pair of successive lines, typically rhyming and of the
I	Power of Nature	Ozymandias, The Prelude, Exposure, Storm on the Island, Tissue & Kamikaze.	6	Identity	My Last Duchess, The Charge of the Light Brigade, Poppies, Tissue, The Emigree, Kamikaze, Checking Out Me History.			same length.
2	Power of Humans	Ozymandias, London, My Last Duchess, Tissue, Checking Out Me History.	7	Place	London, The Prelude, The Emigree, Kamikaze.	8	Sonnet	One stanza, 14-line poem written in iambic pentameter.
3	Effects of Conflict	The Charge of the Light Brigade, Exposure, Bayonet Charge, Remains, Poppies, War Photographer, Kamikaze.	8	Powerful Individuals	Ozymandias, My Last Duchess	9	Refrain	A line or set of lines that repeatedly occurs in a
4	Reality of Conflict	The Charge of the Light Brigade, Exposure, Bayonet Charge, Remains, War Photographer.	9	Political Power	Storm on the Island, London, The Charge of the Light Brigade			poem.
5	Individual Experiences	London, The Prelude, Bayonet Charge, Remains, Poppies, War Photographer, The Emigree, Kamikaze.	10	Memory	The Prelude, My Last Duchess, Remains, Poppies, War Photographer, The Emigree, Kamikaze.	10	Stanza	A group of lines in a poem.

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		The Poems:			The Poems:		Kev	Vocabulary:
I	'Ozymandias' Percy Shelley		9	'Remains' Simon				
2	'London' William Blake			Armitage			I Monologue	
3	'The Prelude'		10	'Poppies' Jane Weir			2 Caesura	
-	William Wordsworth		11	'War Photographer'				
4	'My Last Duchess'		12	Carol Ann Duffy 'Tissue' Imtiaz			3 Enjambment	
	Robert Browning			Dharker				
5	'The Charge of the Light Brigade' Alfred Lord Tennyson		3	'The Emigree' Carol Rumens			4 Free Verse	
6	'Exposure' Wilfred Owen			'Checking Out			5 Rhyme	
7	'Storm on the Island' Seamus		14	Me History' John Agard				
	Heaney			'Kamikaze' Beatrice			6 Volta	
8	'Bayonet Charge' Ted			Garland				
			Compariso	ns:			7 Couplet	
	ower of ature		6	Identity			0	_
	ower of umans		7	Place			8 Sonnet	
	fects of onflict		8	Powerful Individuals			9 Refrain	
	eality of onflict		9	Political Power				
	dividual operiences		10	Memory			10 Stanza	

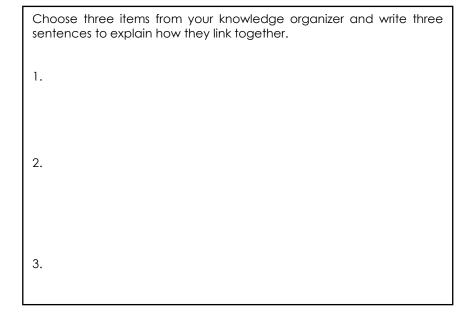


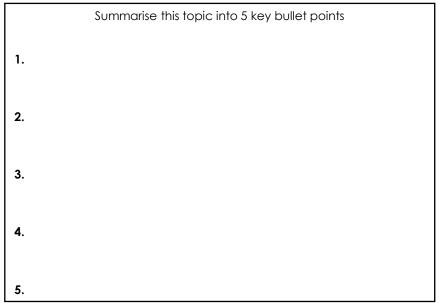
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2. Link It

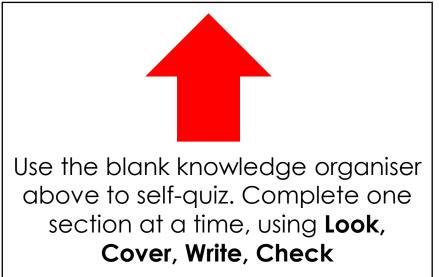






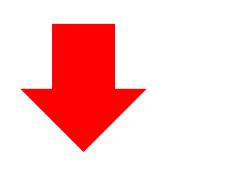
, Be	English Literature					Unseen Poetry	٦	Year Group	: 10 & 11 enjoy learn succeed	
		Ass	essment Criteria		Р	oetic Structures and Forms		К	ey Vocabulary	
Т	AO1		een poem analysis only. Read, understand and ktual references, including quotations, to suppo		Stanza	A group of lines separated from others in a poem.				
2	AO2	illustrate interpr	, 0 1 , 11	2	Rhyme	The repetition of syllable sounds – usually at the ends of lines, but sometimes in the middle of a line (called internal rhyme).	.	Poet	The author of the poem.	
	-	question. Analys	e the language, form and structure used by a v and effects, using relevant subject terminology	writer to	Couplet	A pair of rhyming lines which follow on from one another.				
				4	Enjambment	The running over of a sentence from one line to the next without a piece of punctuation at the end of the line.	2	Speaker	The voice of the poem – this may or may not be the poet themselves.	
			oetic Language		Caesura	A stop or a pause in a line of poetry – usually caused by punctuation.				
		Simile A comparison made using the words "like" or Metaphor A comparison – made directly or indirectly – made directly or indinectly – made directly or indinectly – made directly or i			Blank verse	Poetry written in non-rhyming, ten syllable lines.	3	Reader	Who the poem is written for. Some poems are written with a specific	
2	Metaphor A comparison – made directly or indire using "like" or "as."		, , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Blank VCI SC	, , , , ,			reader in mind.	
3	Pers	onification	Giving human characteristics to something v not human.	which is 7	Dramatic monologue	A poem in which an imagined speaker address the reader.	4	Form	The type of poem, i.e. lyric or sonnet.	
4	Ono	matopoeia	Words which attempt to imitate sounds.	8	Lyric	An emotional, rhyming poem, most often describing the emotions caused by a specific event.		-	The type of poent, i.e. lync of sonnet.	
5	Allit	eration	A repetition of consonant sounds.	9	Sonnet	A fourteen line poem, with variable rhyme scheme, usually on			How the poem has been put together –	
6	Asso	onance	A repetition of vowel sounds		-	the topic of love for a person, object or situation. Non-rhyming, non-rhythmical poetry which follows the rhythms	5	Structure	couplet, rhyme scheme, stanzas etc.	
7	Juxta	aposition	Two things being placed close together for contrasting effect.		Free verse	of natural speech.			Techniques such as metaphor,	
8	Sem	Semantic field A set of words relating to the same topic. "Foul" a "Shot" would appear in the semantic field of sport			Hov	v to approach an unseen poem	6	Language	personification etc. used by the poet to present the subject matter	
9		ona/ ative voice	The voice/speaker of the poem who is differ the writer.	rent from	What	What is the poem about? What happens? What is the topic/theme?	7	Interpretation	A reader's understanding of and response to a poem.	
				2	How	How is this communicated? What language/structural techniques does the poet use to present this?				
10	Оху	moron	A figure of speech in which two contradicto are placed together in a way which makes p sense. For example, "friendly fire."	, ,	Effect	What is the effect on the reader? What response do they have to the poem? What do they learn/understand?	8	Comparison	Comparing the methods two poets use to present their ideas in their poems.	

,	ปียี ckfoot	English Literature			Unseen Poetry	,	Year Group	: 10 & 11	enjoy learn succeed
Assessment Criteria				P	Poetic Structures and Forms	Key Vocabulary			
14	01		1	Stanza]—			
2	NO2		2	Rhyme		ı	Poet		
			3	Couplet		1⊢			
	Poetic Language			Enjambmen		2	Speaker		
—	Simile		5	Caesura		1			
2	Metaphor		6	Blank verse		3	Reader		
3	Personification		7	Dramatic monologue					
4	Onomatopoeia		8	Lyric		4	Form		
5	Alliteration		9	Sonnet			Structure		
6	Assonance		10	Free verse			Schuetare		
7	Juxtaposition								
8	Semantic field			Hov	v to approach an unseen poem	6	Language		
9	Persona/ narrative voice		1	What		7	Interpretation		
			2	How					
10	Oxymoron		3	Effect		8	Comparison		

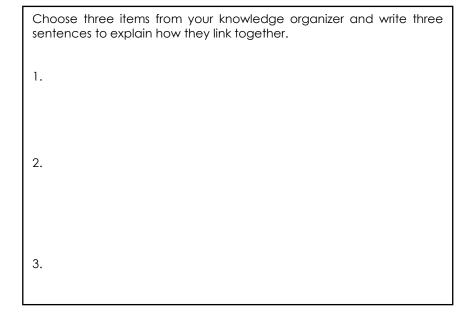


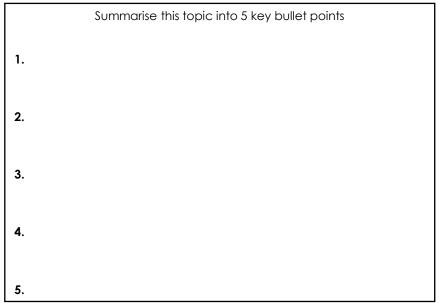
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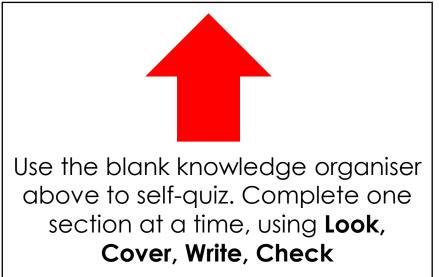




Beckfoot		ect: Science	Topic: Magnetism and Electromagnet	tism	Year Group: 10	enjoy			
						succeed			
Magnets			Fields		Electromagnets				
I	Permanent magnets produce own field	e their I	Field lines always point away from a North pole and towards a South Pole	1	Current flowing in a wire produces a magnetic field Strength of an electromagnet is affected by: i) Current ii) No. of turns of wire iii) Iron core				
2	Induced magnets become m when placed into another fie lose this quickly when remo	eld, but 2		2					
3	Materials that are magnetic: i) Iron ii) Steel iii) Nickel iv) Cobalt They are always attracted to a magnet		Field Lines Around a Bar Magnet		Fleming's Left hand rule: • First Finger = Field • Second Finger = Current • Thumb = Thrust				
					Force = Magnetic Flux Density x Current x Length of wire F = BIL				
4	A compass contains a small bar magnet that lines up with the Earth's			5	A coil of wire in a magnetic field will start to rotate. This is how a motor works.				
	magnetic field	^{e Earth s} 3	Where the field lines are closer together, the field is strongest i.e. at the poles	Key Vocabulary					
5	To show a magnetic field pattern around a bar magnet:		4		Magnetic field	A region where a magnetic material experiences a force			
	i) Scatter iron filings on	a piece	Degree Degree Degree Degree	2	Solenoid	A wire coiled around an iron core			
	of paper and they wil with the field.	l line up		3	Magnetic Flux Density	How strong a magnetic field is			
	ii) Use a compass to plo direction of the field	in		4	Motor effect	The electromagnetic force on a wire			
	different positions are magnet	ound the 5	Earth's magnetic field looks like a bar magnet	5	Induced	Produced/made a magnetic field or current			

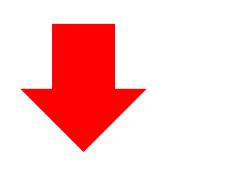
		ر فکار eckfoot	Subject: Science		Topic: Magnetism and Electromagnetism		Year Group: 10		
Magnets		Jeckioot	Fields		ds	Electromagnets			
I				1	Field lines always point away from a	I	Current flowing in a wire produces a		
2				-		2	Strength of an electromagnet is affected by:		
				2	Draw a the magnetic field lines around a magnet.	-			
3						3	Fleming's Left hand rule:		
						4	Force = F = BIL		
4				3) A/house the field lines are also up to set hou	5	A coil of wire in a magnetic field will start to rotate. This is how		
				3	Where the field lines are closer together, the field	Key Vocabulary			
5						1	Magnetic field		
Ĵ		4	4	Boyon and State	2	Solenoid			
						3	Magnetic Flux Density		
						4	Motor effect		
				5	Earth's magnetic field looks like a bar magnet	5	Induced		

1. Quiz It

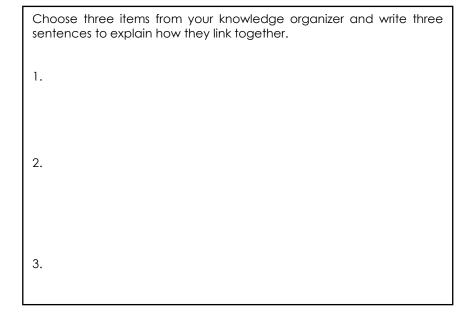


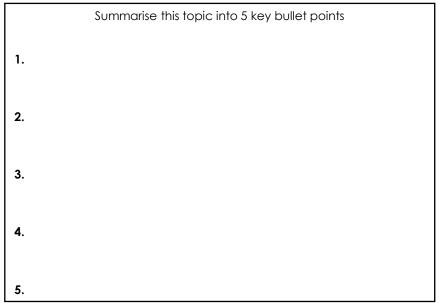
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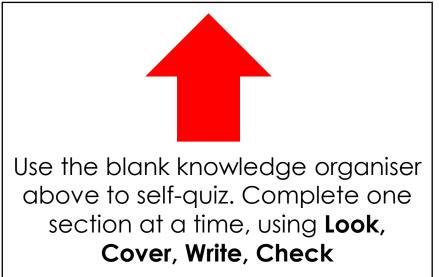




	ہے۔ Becl	kfoot	Subject: Science (Chemistry))	Topic: Quant	titative Chemistry	Year Grou	p:	er	joy actin Icceed	
Calo	culation Ty	pes I		Ca	lculations T	ypes II		Key	Vocabulary		
I	Relative atomic mass (A _r)	sun <mark>Example:</mark> ³⁵ C	(isotope abundance x isotope mass no.) m of abundances of all the isotopes CI 75% abundance & ³⁷ CI 25% abundance (37 x 25) + 100 = 35.5 A. of Chlorine	5	HT Only: The mole & Avogadro's Constant	A mole of a substance ALWAYS con number of molecules/ions/particles/ato Avogadro's Constant: I mole = 6.02×10^{-10} number of moles = $\frac{\text{number}}{6.02}$	oms – this is called 10 ²³	I	Law of Conservation of Mass	No atoms can be created or destroyed in a chemical reaction so the total mass of reactants must equal the total mass of the products	
2	Relative formula or molecular mass (<i>M</i> _r)	Sum of the r in the formu	relative atomic masses of all the atoms shown la SO4 contains:	6 Concentration	 6.02 × 10²³ Example: How many atoms are in 11.5 g of sodium? Calculate number of moles first = 11.5 + 23 = 0.5 moles No. of moles (0.5) × 6.02 × 10²³ = 3.01 × 10²³ 		2	Relative atomic mass (A _r)	Average mass of an element taking into account the mass & amount of each isotope it contains on a scale where the mass of a ¹² C atom is 12		
		x S: x 32 4 x O: 4 x	2 = 32		Concentration	Concentration is the amount of substa volume of a solvent. It can be expresse unit volume, g/dm ³ or g dm ⁻³ or moles	ance in a specific ed as mass (in g) per	3	Relative formula (or molecular) mass (<i>M</i> _r)	The sum of the relative atomic masses of all the atoms shown in the formula	
3	% mass of an element in a compound	Example: Fin	of atoms of that element × 100 M _r of the compound d the % mass of O in Na ₂ O 3; A _r of O is 16					of solvent, mol/dm ³ or mol dm ⁻³ (Che can increase the concentration of a solution solute/solid or reducing the volume of solv Concentration (g/dm ³) = <u>mass (g)</u> volume (dm	³ (Chemistry only). You f a solution by adding more ne of solvent. https://www.adding.com/particular/particul	4	HT only: Mole
4	The mole &	M _r of Na ₂ O % mass = A _r The mass of	so $ x 6 = 6 $ so $(2 \times 23) + (x 6) = 62$ $+ M_r \times 100$ so $ 6 + 62 \times 100 = 26\%$			Examples: What volume of water do I of common salt to get a concentration Volume = mass ÷ concentration so 25 Chemistry Only: Concentration =	need to add to 25 g 0.65 g / dm ³ ? 5 ÷ 0.65 = 38.5 dm³ <u>number of moles</u>	5	HT only: Avogadro's constant	The number of atoms, molecules or ions in one mole of a given substance (6.02×10^{23}) . One mole of any substance contains the same number of particles as the number of atoms in one mole of carbon 12.	
	A _r / M _r	Number of n Example: ho A _r of S is 32	<i>M</i> , (of the element or compound) w many moles is 48 g of sulfur?			(mol/dm ³) Calculate the number of moles in a 0.5 a concentration of 0.35 mol/dm ³ No. of moles = concentration x volum 0.35 x 0.55 = 0.19 moles		6	Uncertainty	The range of values within which the true value is expected to lie. So, for example, a volume of gas collected would be 10cm ³ plus or minus 1cm ³ so expressed as 10cm ³ +/- 1cm ³ so true value is anywhere between 9-11cm ³	

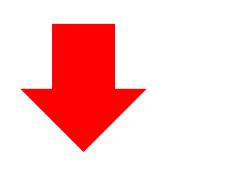
	Bec	kfoot	Subject: Science (Chemistry)	Topic: Quan	titative Chemistry	Year Grou	p:	enjoy Jean succeed
Calc	ulation Ty	vpes I		Ca	lculations T	ypes II		Key	Vocabulary
I	Relative atomic mass (A _r)	A _r = Example: ³⁵ C	Cl 75% abundance & ³⁷ Cl 25% abundance = 35.5 A_r of Chlorine	5	HT Only: The mole & Avogadro's Constant	A mole of a substance ALWAYS consumer of molecules/ions/particles/a Avogadro's Constant: I mole = 6.02 number of moles = $\frac{\text{numbe}}{6.02}$	$toms - this is called x 10^{23}$	I	Law of Conservation of Mass
2	Relative formula or molecular mass (M _r)	Example Mg	SO4 contains:			Example: How many atoms are in 11		2	Relative atomic mass (A _r) Relative formula
		So the relati	ve formula mass = 24 + 32 + 64 = 120	6	Concentration	volume of a solvent. It can be expres	incentration is the amount of substance in a specific ume of a solvent. It can be expressed as mass (in g) per t volume, g/dm ³ or g dm ³ or moles in a specific volume solvent, mol/dm ³ or mol dm ⁻³ (Chemistry only). You increase the concentration of a solution by adding more ute/solid or reducing the volume of solvent.		(or molecular) mass (M _r)
3	% mass of an element in a compound	Example: Fin	id the % mass of O in Na_2O			can increase the concentration of a solu solute/solid or reducing the volume of s Concentration (g/dm ³) = mass (g		4	HT only: Mole
						Examples: What volume of water do of common salt to get a concentration	I need to add to 25 g	5	HT only: Avogadro's constant
4	The mole & A _r / M _r	Number of n Example: ho	noles = $\frac{\text{mass in g (of an element or compound)}}{M_t$ (of the element or compound) w many moles is 48 g of sulfur?			Chemistry Only: Concentration = (mol/dm ³) Calculate the number of moles in a (a concentration of 0.35 mol/dm ³	volume (dm ³)	6	Uncertainty

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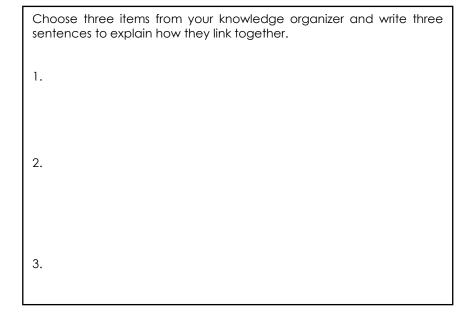


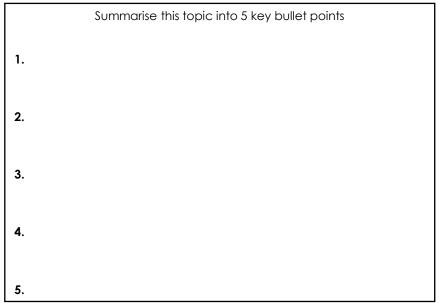
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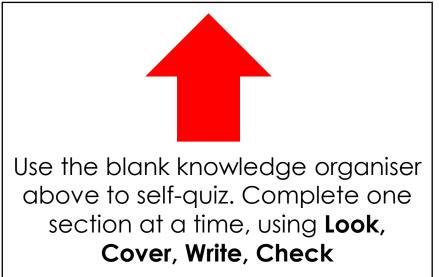




	Be	ckfoot	Subject: Science (Chemistry	')	Topic: Qua	Intitativ	e Chemistry	Year Group	:11	enjo) légi succ	reed
Ca	lculations	Types III		Ma	ss Conservati	on in C	hemical Reactions		Key	Vocabulary	
5	Chemistry Only		product formed in a reaction compared to neoretical mass that could be produced as a	Ι	The law of mass conservation in terr chemical reaction		The total number of each typ chemical reaction is the same the reaction		7	Thermal decomposition	Reaction where heat causes a substance to break down into simpler
	Percentage yield (%)	percentage yield Example: 25g of	= mass of product actually made maximum theoretical mass of product * 100 F salt was produced in a reaction but the	2	How can we show conservation of ma chemical equation?	ss in a	The total M_r of all the reactant to the total M_r of all the proc		8	HT only : Limiting reactant /	substances The reactant in a reaction that determines the amount of products formed. Any other reagents are in excess &
		expected mass 25 ÷ 80 x 100 =	was 80g. What is the % yield? = 31.3 %	3	Why might mass ap go up in a reaction?	•	Due to one or more reactant found in air, that 'adds on' to	0 0		reagent	
6	Chemistry Only		ring what percentage of the mass of all the actants ends up in the desired product	4	Why might mass ap go down?	pear to	One of the products is a gas	that escapes			some of them will be left over, unreacted
	Atom economy	atom economy =	= relative formula mass of desired product relative formula mass of all reactants × 100	H	F only: React		uss Calculations: the	•	9	HT only : Excess	When the amount of a reactant is greater than the amount that can react
			eaction below is used to produce calcium alculate the atom economy of the reaction:			3.7g of c	alcium hydroxide (Ca $(OH)_2$) react chloric acid (HCI)?		10	Chemistry Only: Yield	The amount of product formed in a reaction
		M_r of CaCO ₃ =	aO + CO ₂ 0 + 16 = 56 (desired product) 100 (Formula mass of all reactants) - 100 × 100 = 56 %	2	Write out the balanced equation & identify what we know & don't know	Ca(OH) ₂ + 3.7g	2HCl —> CaCl ₂ + 2H ₂ O ?		11	Chemistry Only: Titration	A technique used to find the concentration of a solution using a solution
				3	Work out the moles of what you	Ca(OH) ₂ + 3.7 ÷ 74 = 0.05 mc	$2HCI \longrightarrow CaCl_2 + 2H_2O$ Remember Mr of Ca(of known concentration
	Chemistry Only Gas volumes	(1 atm) occupies	at room temperature (20°C) and pressure s a volume of 24dm ³ olume of gas = $\frac{\text{Mass of gas}}{M_{s} \text{ of gas}} \times 24$ in g	4	know Check ratio in the balanced equation	l unit of So whate	CaCl ₂ is formed from I unit of Ca(O /er moles of what you have worked same moles of what you need to wo	out (Ca(OH) ₂) will	12	Chemistry only: Concordant	Two or more results from titration where the values are very close together (within 0.10cm ³)
		temperature &	volume will 88g of CO ₂ gas occupy at room pressure? + M _r x 24 so 88 + 44 = 2 x 24 = 48 dm ³	5	Calculate the number of moles of what you don't know	We will n	Il make 0.05 moles of Ca(OH) $_2$ as the ratio of both unds in the equation is 1:1		13	Chemistry only: End point	The moment when the indicator changes colour in a titration showing that the moles of acid & alkali
	1	1		6	Calculate the mass of what you don't know	So in the Mass = M III x 0.0		o a mass in grams _r of CaCl ₂ is 111			are equal

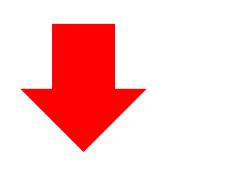
	,	Subject: Science (Chemistry	')	Topic: Qua	antitative Chemistry	Year Group	:11	enjoy learn succeed
Ca	Iculations		Ma	ss Conservati	on in Chemical Reactions		Key	· Vocabulary
5	Chemistry Only	The amount of product formed in a reaction compared to the maximum theoretical mass that could be produced as a percentage	I	The law of mass conservation in terr chemical reaction			7	Thermal decomposition
	Percentage yield (%)	percentage yield = mass of product actually made maximum theoretical mass of product × 100 Example: 25g of salt was produced in a reaction but the	2	How can we show conservation of ma chemical equation?	ss in a		8	HT only: Limiting reactant /
		expected mass was 80g. What is the % yield?	3	Why might mass ap				reagent
6	Chemistry Only	A way of measuring what percentage of the mass of all the atoms in the reactants ends up in the desired product	4	Why might mass ap go down?	opear to			
	Atom economy	atom economy = relative formula mass of desired product relative formula mass of all reactants × 100	H	F only: React	ting Mass Calculations: the What mass of calcium chloride (CaCl ₂)	-	9	HT only: Excess
		Example: The reaction below is used to produce calcium oxide (CaO). Calculate the atom economy of the reaction:			3.7g of calcium hydroxide (Ca(OH) ₂) re of hydrochloric acid (HCl)?	eacts with an excess	10	Chemistry Only: Yield
		$CaCO_3 \rightarrow CaO + CO_2$	2	Write out the balanced equation & identify what we know & don't know			11	Chemistry Only: Titration
			3	Work out the moles of what you				
	Chemistry Only Gas volumes	1 mole of a gas at room temperature (20 ^o C) and pressure (1 atm) occupies a volume of 24dm ³ in dm ³ Volume of gas = $\frac{Mass of gas}{M_{s} of gas} \times 24$ in g	4	know Check ratio in the balanced equation			12	Chemistry only: Concordant
		Example: vvnat volume will 88g of CO ₂ gas occupy at room temperature & pressure?	5	Calculate the number of moles of what you don't know			13	Chemistry only: End point
			6	Calculate the mass of what you don't know	So in the last step we are converting mole Mass = $M_r \times Moles$	es to a mass in grams M _r of CaCl ₂ is 111		

1. Quiz It

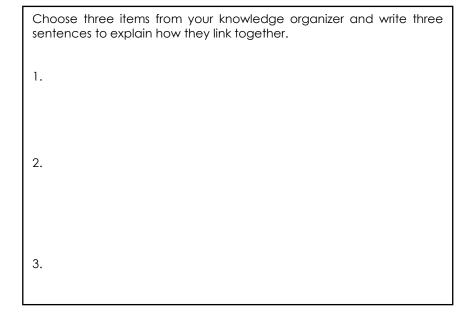


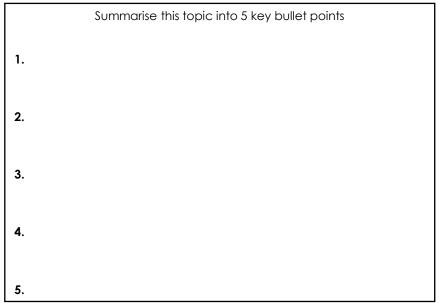
3. Map It

Use the space on the next page to create a mind-map or diagram to illustrate the knowledge from this topic.



2. Link It







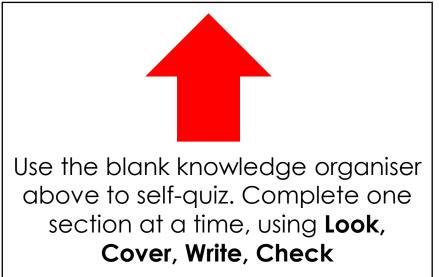




Titration Method (Chemistry only)	Titration Calculation – the steps (Chemistry only)
A student investigated the volume of hydrochloric acid that reacted with 25 cm ³ potassium hydroxide. Describe a titration method the student could use in this investigation.	In a different titration, a student used 25.00 cm ³ of potassium hydroxide, KOH. This volume reacted with exactly 26.00 cm ³ of 0.100 mol dm ⁻³ sulfuric acid. The equation for the reaction is: $2KOH + H_2SO_4 \rightarrow K_2SO_4 + 2H_2O$. What is the concentration of the potassium hydroxide solution in mol dm ⁻³ ?
 Measure 25 cm³ potassium hydroxide using a pipette Place the potassium hydroxide into a conical flask Fill the burette with hydrochloric acid and record the starting volume Add a suitable indicator to the conical flask, e.g., Phenolphthalein Place a white tile under flask 	ICalculate the moles of the reactant that you have the volume and concentration for (in this case it is the sulfuric acid). Remember, moles = volume (dm³) x concentration (mol dm⁻³) (26.00 / 1000) x 0.100 = 0.00260 mol
 Add the hydrochloric acid until the indicator changes colour Add acid slowly and dropwise whilst at the same time swirling the flask Phenolphthalein will change from pink to colourless permanently at the endpoint 	 Now determine the moles of potassium hydroxide you have. Look at the equation. You can see you have a 2:1 ratio. This means you have double the moles of KOH. 2 x 0.00260 = 0.0052 mol
 Record the volume of hydrochloric acid added The tire value is the difference between the initial and final burette reading Repeat until you get 2 concordant titres/within 0.1 cm³ of each other 	3 Now you can work out the concentration of KOH using concentration (mol dm ⁻³) = moles / volume (dm ³) 0.0052 x (25/1000) = 0.208 mol dm ⁻³

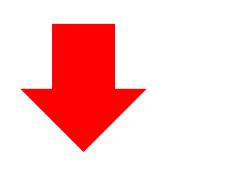
Subject: Science (Chemistry)	Topic: Quantitative Che	mistry	Year Group: 11	enjoy lean succeed
Titration Method (Chemistr	y only) Titr	ation Calc	ulation – the s only)	teps (Chemistry
A student investigated the volume of hydrochloric acid that reacted with 25 cm ³ potassium hydroxide. Describe a titration method the student could use in this investigation.	hydro 0.100 2KOF	xide, KOH. This mol dm ⁻³ sulfur I + H ₂ SO ₄ → K	volume reacted wi ric acid.The equatio	.00 cm ³ of potassium th exactly 26.00 cm ³ of n for the reaction is: t is the concentration of dm ⁻³ ?
•		volume and cor	· ·	that you have the his case it is the sulfuric dm ³) x concentration
•	1	nave. Look at th	•	sium hydroxide you n see you have a 2:1 the moles of KOH.
•		•	rork out the concen mol dm ⁻³) = moles /	tration of KOH using 'volume (dm³)

1. Quiz It

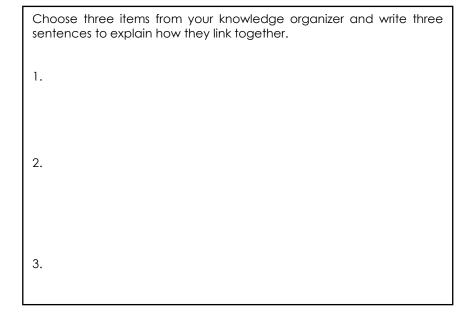


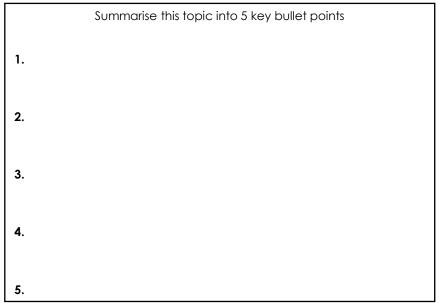
3. Map It

Use the space on the next page to create a mind-map or diagram to illustrate the knowledge from this topic.



2. Link It







00	Subject: Trilogy Science
Beckfoot	(Biology)

Year Group: I I



Kı	nowledge: Mitosi	is Vs Meiosis	Key	Vocabulary] [Key	Vocabulary	
			I	Allele	An alternative form		8	Genotype	The combination of Alleles
	Mitosis (for growth & repair)	Meiosis (makes gametes)			of a gene		9	Heterozygous	A genotype that has
Ι	Produces two daughter cells	Produces four daughter cells	2	Asexual reproduction	The production of offspring from a single parent by				two different alleles, one dominant one recessive
2	Daughter cells are genetically identical	Daughter cells are not genetically identical			mitosis. Offspring are clones of the parent. Structure that contains the DNA of an organism, found in		10	Homozygous	A genotype that has two of the same
3	The cells divide once	The cells divides twice	3	Chromosome			contains the DNA of an organism, found in		
4	The chromosome number of the	The chromosome number is reduced			the nucleus		11	Mutation	A change in DNA
	daughter cell is the same as the parent cell. In humans this is 46 chromosomes.	by half. In humans, this is 23 chromosomes.	4	DNA	A polymer that is made up of two strands that form a double helix		12	Phenotype	The characteristic expressed because of the combination of alleles
5	Used for growth and repair, and asexual reproduction.	Produces gametes for sexual reproduction.	5	Dominant	An allele that is always expressed, even if only one copy is present		13	Recessive	An allele that is only expressed if two copies of it are present
- Se	man genome project: Study of the whole human portance of this project: parch for genes linked to d	ifferent types of disease	6	Gene	A small section of DNA that codes for a specific protein		14	Sexual reproduction	The production of offspring by combining genetic
	nderstanding and treatmer se in tracing human migrat t.		7	Genome	The entire genetic material of an organism				information from the gametes of two parents. Leads to variation in offspring

00	Subject: Trilogy Science	Topic: Inheritance, Variation &	Year Group: I I	enjoy
Beckfoot	(Biology)	Evolution	·	succeed

Kr	nowledge: Mitosi	s Vs Meiosis	Key
	Mitosis (for growth & repair)	Meiosis (makes gametes)	1
Ι			2
2			
3			3
4			
			4
5			5

Human genome project:

- Study of the whole human genome

Importance of this project:

Search for genes linked to different types of disease
Understanding and treatment of inherited disorders

- Use in tracing human migration patterns from the past.

Key	Vocabulary	
Ι	Allele	
2	Asexual reproduction	,
3	Chromosome	
4	DNA	
5	Dominant	
6	Gene	
7	Genome	

Key	Vocabulary	
8	Genotype	
9	Heterozygous	
10	Homozygous	
11	Mutation	
12	Phenotype	
13	Recessive	
14	Sexual reproduction	

I. Quiz It

Use the blank knowledge organiser above to self-quiz. Complete one section at a time, using Look, Cover, Write, Check

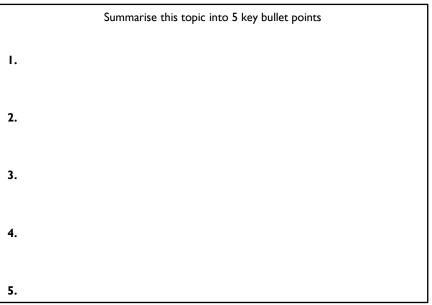
3. Map It

Use the space on the next page to create a graphic organiser to illustrate the knowledge from this topic.

Choose three items from your knowledge organizer and write three sentences to explain how they link together. 1. 2.

3.

2. Link It





ہے۔ Beck	Subject: Trilogy Science foot (Biology)	Тор	oic: Inheritance, Variation & Evoluti	on	Year (Group: II	
Kno	owledge: Fossils	Kno	owledge: Evolution		U	educing antibiotic	
Fos	sils could be:		species of living things have evolved		Antibiotics	s should only be used when	
1	The actual remains of an organism that has not decayed		n simple life forms by natural ction		really need	led and for serious bacterial only (not viral)	
2	Mineralised forms of the harder parts of an organism, such as bones		If a variant/characteristic is advantageous in an environment,	2 Patients should complete their courses of antibiotics, even if they feel better.			
3	Traces of organisms such as footprints or burrows		then the individual will be better able to compete	3	The agricultural use of antibiotics should be restricted.		
	Many early life forms were soft bodied so have left few traces behind.		This means they are more likely to survive and reproduce	Ke	y Vocabulary	/	
	ils help us understand how much or little nisms have changed as life developed on n	3 The offspring will inherit the advantageous allele		Ι	Evolution	A change in the inherited characteristics of a population over time through natural	
Kno	wledge: Classification	Kno	Knowledge:Variation		Extinction	selection The permanent loss of all	
	Linnaeus classified living things into	May	be due to differences in:	2		members of a species	
	Kingdom, Phylum, Class, Order, Family, Genus and Species	Ι	The genes that have been inherited (genetic causes)	3	Natural selection	The process by which organisms that are better suited to an environment are	
2	Organisms are named by the binomial system of genus and species	2	The conditions in which they have			more likely to survive and reproduce	
3	Due to evidence from chemical analysis,		developed (environmental causes)		Speciation	Two species evolve from one	
	there is now a 'three-domain system' developed by Carl Woese –Bacteria, Archaea, Eukaryota		A Combination of genes and the environment			organism but can no longer breed to produce fertile offspring	
	· · ·						

Additional Information: The process of Genetic Engineering, The process of Selective Breeding, The process of Antibiotic resistance

Subject: Trilogy Science Beckfoot (Biology)	Topic: Inheritance, Variation & Evoluti	ion	Year Group: II
Knowledge: Fossils	Knowledge: Evolution		nowledge: Reducing antibiotic
Fossils could be:	All species of living things have evolved from simple life forms by natural selection	res I	sistance
2	1	2	
3		3	
	2	Ke	ey Vocabulary
	3	1	Evolution
Knowledge: Classification	Knowledge:Variation	2	Extinction
	May be due to differences in:		
	1	3	Natural selection
2	2		
3	3	4	Speciation

Additional Information: The process of Genetic Engineering, The process of Selective Breeding, The process of Antibiotic resistance

I. Quiz It

Use the blank knowledge organiser above to self-quiz. Complete one section at a time, using Look, Cover, Write, Check

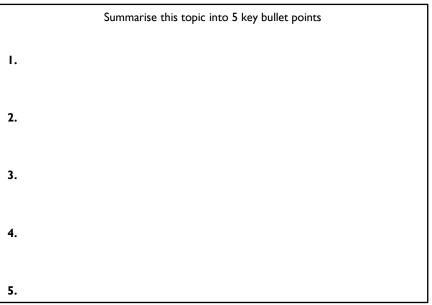
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Choose three items from your knowledge organizer and write three sentences to explain how they link together. 1. 2.

3.

2. Link It





آ_ر Bec	Subject: Triple Science kfoot (Biology)	2	Торіс:	Topic: Inheritance, Variation & Evolution Year Group: 11					
	Advantages/disadvantages of the 2 types of reproduction Sexual reproduction		ual OR as	exual	Prote	ein synthesis			
			organisms rep nstances.	produce by both methods depending on the	I	DNA is copied to make a template strand. This needs to happen as DNA is too large to leave			
Sex				ites reproduce asexually in the human host, n the mosquito.	2	the nucleus. Template strand moves to the ribosomes			
I	produces variation in the offspring	2		produce asexually by spores but also xually to give variation.		where it binds.			
2	2 if the environment changes variation gives a survival advantage by natural selection		•	produce seeds sexually, but also reproduce	3	Carrier molecules bring amino acids to the template strand for every 3 bases.			
			asexually by r division such	unners such as strawberry plants, or bulb as daffodils.	4	Amino acids join together in a chain which will eventually form a protein.			
3	natural selection can be speeded up	Stru	icture of E	DNA	5	The protein is released from the ribosome and the protein folds up to form a unique shape.			
	by humans in selective breeding to increase food production.			des which consist of a common sugar and th one of four different bases attached to the		This unique shape enables the proteins to do their job as enzymes, hormones or forming structures in the body such as collagen.			
Ase	xual reproduction	I	The sugar and phosphate alternates in the backbone.		GGT GGT CCC TGT GGA GCA GGT Bases				
	only one parent needed	2		4 bases – A, G, C, T					
2	more time and energy efficient as do not need to find a mate	Comp pairin	olementary g	A pairs with T C pairs with G		itions – changes to the base sequence			
3	faster than sexual reproduction	3		3 bases code for an amino acid. Amino acids join together to make proteins.		Mutations occur continuously. Most do not alter the protein, or only alter it slightly so that its appearance or function is not changed.			
4	many identical offspring can be produced when conditions are favourable.	Diagr	am		2	A few mutations code for an altered protein with a different shape. An enzyme may no longer fit the substrate binding site or a structural protein may lose its strength.			
stat	a can use the converse of these ements to describe the disadvantages ach type of reproduction.	chang	tions – May influence phenotype: a) in coding pes in DNA DNA by altering the activity of a protein: and b) in non-coding DNA by altering how genes are expressed.			Not all parts of DNA code for proteins. Non- coding parts of DNA can switch genes on and off, so variations in these areas of DNA may affect how genes are expressed.			

Beckfoot (Biology)	e Top	oic: Inheritance, Variation & Evoluti	on	Year Group: 11
Advantages/disadvantages of	Sexual OR	asexual	Prote	in synthesis
the 2 types of reproduction	Some organisms circumstances.	s reproduce by both methods depending on the	1	
Sexual reproduction	I		2	
1	2		3	
2			4	
	3		5	
3	Structure o	of DNA		
		leotides which consist of a common sugar and p with one of four different bases attached to the		
Asexual reproduction	1	Phosphale group	GGT GGT CC	C TGT GGA GCA GGT Bases
	2	P Cytothe Nicogenou		
2	Complementary pairing	Y Nucleotide	Muta	tions – changes to the base sequence
3	3			
4	Diagram		2	
You can use the converse of these statements to describe the disadvantages of each type of reproduction.	Mutations – changes in DNA sequence/genes		3	

I. Quiz It

Use the blank knowledge organiser above to self-quiz. Complete one section at a time, using Look, Cover, Write, Check

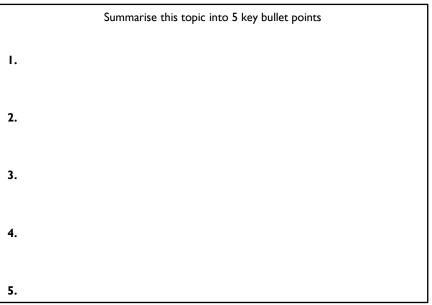
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Read Like a Beckfooter

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?

2. Does it look like any other words you know? Could it mean something similar?

3. If you can't figure it out for yourself, look the word up in a dictionary or online

Comprehension

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

1. Do you understand what it means literally?

2. Can you see what's implied?

To achieve these things:

1. Slow down your reading – many people miss key parts in texts because they go too fast

2. Look carefully at punctuation, which is designed to help you take pauses in the right places

3. Ask a trusted adult to read the text to/with you

Remember: not every text has implied meaning.

In English there will be lots, but there will be very little in many Science and Maths texts.

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:

1.Summarise the text in five words

2.Summarise the text in twenty words

3.Summarise the text in fifty words

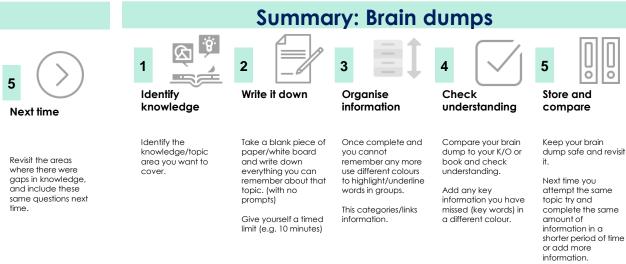
Each time you will have added more information, but you won't have included everything.

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

Revise Like a Beckfooter



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



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

answer out loud or write it down before checking it against the card, so you are truly testing if you can explain the answer properly

Summary: Self Quizzing

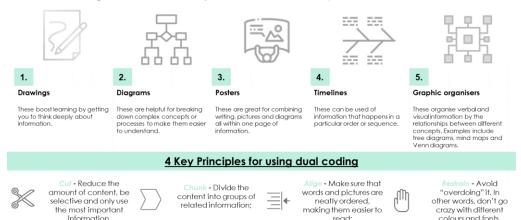


Brain dumps are a way of getting information out of your brain.

Revise Like a Beckfooter

Summary: Dual Coding

Dual coding is the process of blending both words and pictures while learning. Viewing those two formats aives us **two different representations** of the **same** piece of information.



As well as knowing the most effective techniques for revision, it is really important that you consider the best times for you to revise each topic/subject. The two strategies below, (spacing and interleaving) will help you to put together a revision timetable that will help you to strengthen your memory and choose what you revise and when.

Summary: Spacing

- Spacing is regularly revisiting material so that you are doing little and often instead of all at once.
- · Doing a little amount regularly is more effective than doing a lot all at once. We do this so that we don't get swamped and overwhelmed

WHY? This is because the time in between allows you to forget and re-learn the information, which cements it in your longterm memory

To commit something to memory, it takes time and repetition.

Optimum Spacing

- Research suggests there is an 'optimal gap' between revision sessions so you can retain the information.
- If the test is in a month, you should review the information around once a week. If the test is in a week, create time once a day.

Why use Spacing?

- Doing something little and often spacing beats doing it at once, or cramming
- The time in between revision allows you to forget and re-learn the information, which cements it in your long-term memory
- It cements information into your long-term memory
- We can learn more information over time than in one longer session
- It helps you revise more efficiently

Revision Gap	1.
1-2 days	Switch
1 week	Switch between topics during each session. It allows you to think about what you are doing with your time when you are revising.
2 weeks	· · · · · · · · · · · · · · · · · · ·
3 weeks	
1 month	 Break units down into small chunks and Decide on the key topics you need to I Create a revision timetable to oraanise
	1-2 days 1 week 2 weeks 3 weeks

Summary: Interleaving

Interleaving is a theory that revising more than one topic in each session will help you make better links between them.

Review in different orders

2.

When reviewing make sure you do it in a different order that you learnt them, or previously revised them

By revisiting material from each topic several times, in short bursts, this increases the amount of information you can recall in your exams.

Make links to remember more.

Try to make links between ideas and review your revision notes.

This helps you make connections between topics and forces you to think harder about which strategies need to be applied to which problems.

Applying interleaving to your revision

Break units down into small chunks and split these over a few days rather than revising one whole topic all at once.

Decide on the key topics you need to learn for each subject.

Create a revision timetable to organise your time and space your learning.

Additional Revision Strategies

Brain Dump

Choose a topic and write down as much as you can remember, without referring to your notes. Check your notes and see what you missed then try fill the gaps without the notes. Check your notes a third time and add the missing information.

Flash cards

Write flash cards for each topic, in all subjects, then mix them up for the most effective revision. Check out the Leitner System for effective spacing and interleaving. Keep your flash cards simple – one question, one answer per card.

Map it out

Take an essay question or writing question and map out your answer, without writing a full response. Look at the mark scheme and deicide if you plan meets the criteria. DO this for a number of questions, then choose one and write the full response.

Past papers

Ask your teacher for practice questions or exam papers. Complete them without notes in the exam conditions, then check you answers and identify the gaps in your knowledge, so you can target your revision.

Quizzes

Write a set of questions and answers and ask someone to test you. Its important to either write or say your answers loud. Reading through quizzes in your head can give you a false sense of security.

Thinking hard: Reduce

Read a section of your notes then put them aside and reduce what you need into 3 bullet points, each one no more than 10 words. Look back at the notes and decide if you missed anything important. Hide the notes and write a fourth bullet point.

Practice Introductions

For essay subjects, tale a past exam question and practice writing effective introductions and conclusion. Look back at your notes and remind yourself of the important things to remember. Practice for different topics, texts and papers.

Thinking hard: Transform

Read a paragraph from your notes or a text book, and transform it into a diagram, chart or sketch – no words allowed. OR Look a diagram in science, for example, and transform it into a paragraph of explanation.

Thinking hard: Connect

For each subject, consider the exam paper and group together questions that require the same technique to answer. Write down the requirements for each type. Find a previous example you have completed and identify where you've met the criteria.

Key vocabulary

For a particular topic, make a list of key vocabulary, then do the following: define each word; use each term in a sentence; create a question where the key word is the answer; identify other words which connect to each of the words in your list.

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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
3:45-4:15							
4:15-4:45							
4:45-5:15							
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
3:45-4:15							
4:15-4:45							
4:45-5:15							
5:15-5:45							
5:45-6:15							
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6:45-7:15							
7:15-8:45							

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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
3:45-4:15							
4:15-4:45							
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
3:45-4:15							
4:15-4:45							
4:45-5:15							
5:15-5:45							
5:45-6:15							
6:15-6:45							
6:45-7:15							
7:15-8:45							

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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
2:45-3:45							
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:30-9:30	LESSON	LESSON	LESSON	LESSON	LESSON		
9:30-10:30	LESSON	LESSON	LESSON	LESSON	LESSON		
10:30-10:55	Tutor Time						
10:55-11:20	BREAK	BREAK	BREAK	BREAK	BREAK		
11:20-12:20	LESSON	LESSON	LESSON	LESSON	LESSON		
12:20-1:20	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH		
1:20-1:50	LESSON	LESSON	LESSON	LESSON	LESSON		
1:50 – 2:45	LESSON	LESSON	LESSON	LESSON	LESSON		
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Reflect Like a 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, ask yourself:

Comprehension

What is this task about? What do I understand about it? 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?

Strategy

Do I know any strategies that would be appropriate for this task?

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

Was it successful?

How can I ensure I am successful this time?

During a task, ask yourself:

Reflection (during the task)

How is this going? What mistakes do I often make in this kind of task?

How can I avoid making those mistakes?

What am I finding difficult right now?

What am I doing well?

How do I know?

How do I feel about the work?

Am I motivated to complete this task to a high standard?

What can I do to improve my motivation level right now?

After a task, ask yourself:

Reflection (after the task)

Does my finished work look successful?

Does it make sense?

How do I know?

Could I have done this a different way?

Is this work better than I have done in the past?

How do I know?

How did my motivation level affect my performance in the task?

What emotions did I experience during the task?

Why?

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

Communication Pages

			Date
			To
			From
			Message
			Please sign to acknowledge