Knowledge Navigator 2022/2023 Cycle 1

Year 10

Name: Form:

Determination | Integrity | Trust



		Week 1	Week 2		Week 3			Week 4	Week 5	
Monday	29/08/22	Bank holiday	05/09/22	French Page 20 Week 2	12/09/22	French Page 20 Week 3	19/09/22	French Page 20 Week 4	26/09/22	French Page 20 Week 5
Tuesday	30/08/22	Year 7 only	06/09/22	Science Page 8 Box 1/2	13/09/22	Science Page 8 Box 3/4/5	20/09/22	Science Page 8 Box 6/7	27/09/22	Science Page 10 Box 1
Wednesday	31/08/22	All students	07/09/22	RE Page 28 Week 2 Sparx Maths	14/09/22	RE Page 28 Week 3 Sparx Maths	21/09/22	RE Page 28 Week 4 Sparx Maths	28/09/22	RE Page 28 Week 5 Sparx Maths
Thursday	01/09/22	All students	08/09/22	English Page 2 Box B	15/09/22	English Page 2 Box C	22/09/22	English Page 2 Box D/E	29/09/22	English Page 3 Box F/G
Friday	02/09/22	All students	09/09/22	Geography History Page 24 Quiz 2 Page 26 Box A	16/09/22	Geography History Page 24 Quiz 3 Page 26 Box B	23/09/22	Geography History Page 24 Quiz 4 Page 26 Box C	30/09/22	Geography History Page 24 Quiz 5 Page 26 Box D
	Week 6		Week 7		Week 8			Week 9	Week 10	
Monday	03/10/22	French Page 21 Week 6	10/10/22	French Page 21 Week 7	17/10/22	French Page 22 Week 8	07/11/22	French Page 22 Week 9	14/11/22	French Page 22 Week 10
Tuesday	04/10/22	Science Page 10 Box 2/3	11/10/22	Science Page 12 Box 1/2	18/10/22	Science Page 12 Box 3/4	08/11/22	Science Page 9 Box 1/2	15/11/22	Science Page 9 Box 3/4
Wednesday	05/10/22	RE Page 28 Week 6 Sparx Maths	12/10/22	RE Page 29 Week 7 Sparx Maths	19/10/22	RE Page 29 Week 8 Sparx Maths	09/11/22	RE Page 29 Week 9 Sparx Maths	16/11/22	RE Page 29 Week 10 Sparx Maths
Thursday	06/10/22	English Page 3 Box H	13/10/22	English Page 3 Box H	20/10/22	English Page 3 Box I	10/11/22	English Page 3 Box J/K	17/11/22	Staff only
Friday	07/10/22	Geography History Page 24 Quiz 6 Page 27 Box E	14/10/22	Geography History Page 25 Quiz 7 Page 26 Box A/B	21/10/22	Geography History Page 25 Quiz 8 Page 26 Box C/D	11/11/22	Geography History Page 25 Quiz 9 Page 27 Box F	18/11/22	Staff only

	Week 11			Week 12			Week 13		
Monday	21/11/22	French		28/11/22	French		05/12/22	French	
wonday	21/11/22	Page 22 We	eek 11	20/11/22	Page 23 W	eek 12	03/12/22	Page 23 W	eek 13
Tuesday	22/11/22	Science		29/11/22	Science		06/12/22	Science	
Tuesuay	22/11/22	Page 9 Box	x 5/6/7/8		Page 11 Box 1/2		00/12/22	Page 11 Box 3/4	
Wednesday	23/11/22	RE Page 29 Week 11		30/11/22	RE Page 29 Week 12		07/12/22	RE Page 29	Week 13
weattesday	23/11/22	Sparx Math			Sparx Math	parx Maths		Sparx Maths	
Thursday	24/11/22	English		01/12/22	English		08/12/22	English	
mursuay	24/11/22	Page 4 Box L		01/12/22	Page 4 Box L		00/12/22	Page 4 Box	M/N
Friday	25/11/22	Geography	History	02/12/22	Geography	History	09/12/22	Geography	History
		Page 25 Quiz 11	Page 27 Box H		Page 25 Quiz 12	Page 27 Box F		Page 25 Quiz 13	Page 27 Box G



YEAR 10 CYCLE 1 HOMEWORK

YEAR 10 KNOWLEDGE NAVIGATOR CYCLE 1 CONTENTS PAGE

1	Contents page
2	English: An Inspector Calls
5	Maths
8	Science: B4 Bioenergetics
9	Science: B5 Homeostasis and Response
10	Science: C3 Quantitative Chemistry
11	Science: C4 Chemical Changes
12	Science: P2 Electricity
13	French
24	Geography: The Living World

26	History: Migrants to Britain (Overview)
27	History: Medieval Migration 1250-1500
28	RE: Christian Practices
30	Performing Arts: Music
31	Enterprise: Component 2
33	Health and Social care: Component 2
35	Travel and Tourism: Component 1
37	IT: Component 3
39	Sport Science: The Skeletal System
40	Sport Science: The Muscular System

	English		An Inspector Call	S	Cycle 1	YEAR 10	
BOX A: Characters			BOX B: Plot				
Inspector	Priestley's mouthpiece; advocates social justice		Act 1	Sheila and Gerald's engage	gement is celebrated		
Mr Birling	Businessman, capitalist, against social equality		Act 1	Birling says there will be	no war; references Titanic		
Mrs Birling	Husband's social superior, believes in personal responsibil	ity	Act 1	Inspector arrives; a youn	g girl has committed suicide		
Sheila	Young girl, comes to change views and pities Eva, feels reg	ret	Act 1	Birling threw her out afte	er strike; Sheila had her fired for laughing		
Eric	Young man, drinks too much, rapes Eva, regrets actions		Act 2	Gerald had an affair with	Daisy Renton		
Gerald	Businessman, engaged to Sheila, politically closest to Birlir	ng	Act 2	Mrs Birling refused to giv	e charity to Eva; blames father		
Eva	Unseen in play, comes to stand for victims of social injustic	ce	Act 3	Eric's involvement reveal	led; possible rape hinted at		
			Act 3	Inspector leaves. Gerald	returns; met policeman, no Inspector G		
BOX C: Key Quotations		Act 3	Telephone rings; an inspe	ector is coming			
Birling's confidence			BOX D: Theatrical Stagecraft: Dramatic Devices				
Birling on society			1. Dramatic irony	the audience knows what the characters don't			
Sheila's recognition	'but these girls aren't cheap labour – they're people'		2. Stage directions	Instructions for the actors; often revealing			
Sheila's regret	'it's the only time I've ever done anything like that, and I	'll never, never do it	3. Setting	Constant throughout but subtle changes e.g. lighting			
	again to anybody'		4. Tension	Builds up throughout the play			
Sheila on the Inspector	'we all started like that – so confident, so pleased with o began asking us questions'	urselves until he	5. Cliff-hanger	The ending allows the audience to make up their minds			
Sheila on Eric	'he's been steadily drinking too much for the last two ye	ars'	BOX E: Key Concepts and Context				
Inspector on guilt	'I think you did something terribly wrong – and that you' the rest of your life regretting it'	re going to spend	1912	Play is set here; just before WWI and sinking of the Titanic			
Mrs Birling defends	'she was claiming elaborate fine feelings and scruples th	at woro simply	1945	Priestley wrote the play t	hen; start of the welfare state and ideals of	social equality made real	
herself	absurd in a girl in her position'		Social responsibility	Or socialism; we must all			
Eric explains	'I'm not very clear about it, but afterwards she told me s		Capitalism	Business should make me	oney no matter the human cost; we are all r	esponsible only for ourselves	
	to go in but that – well, I was in that state when a chap e and I threatened to make a row'	asily turns nasty –	Class	Upper and lower social classes are segregated			
The Inspector says	'but each of you helped to kill her. Remember that'		Age	Old vs young; new and old ideas counterposed			
Inspector's message	'there are millions and millions and millions of Eva Smith	is and John Smiths	Attitudes to women	Patriarchal leading to mis	sogyny		
	still left with us, with their lives, their hopes and fears, the chance of happiness, all intertwined with our lives, with	.	Wealth, Power, Influence	How should we use our v	vealth, power and influence?		
	say and do. We don't live alone.'		Public versus Private	What appears private is s	shown to have influence outside		
Birling's confidence	'the famous younger generation who know it all'		Morality and Legality	Priestley questions the m	norality of characters and audience		

	English			An Inspector Calls	Cycle 1		YEAR 10		
Act	BOX F: Events of 'AIC'	Character	s			Context			
enga 2) Inspe anno Smit	family are celebrating the agement of Sheila and Gerald. ector Goole arrives buncing the death of Eva h.	BOX H: 1) "hard-headed, practical man of business" Manufacturer. Mr 2) "A man has to make his own way – has to look after himself – and his family too." Capitalist/ proud/ individualistic/ social climber. Birling 3) "unsinkable". Foolish/ overconfident. 4) "mixed up together like bees in a hive – community and all that nonsense". Selfish. 5) "I can't accept any responsibility". Does not learn from the Inspector/ stubborn. 6) "the famous younger generation who know it all." Older generation.					BOX J: JB Priestley (1894-1984): born in Bradford, worked in a wool firm, socialist, fought in WW1, influential in setting up the Welfare State. His work is controversial and politically charged. AIC encourages people to seize the opportunity the end of war had given them, to build a better, more caring society.		
4) Eva o Rent		BOX H: 1) "about fifty, a rather cold woman and her husband's social superior." Higher social status than her husband/ upper class. Mrs Birli 2) "I did nothing I'm ashamed of." Unsympathetic/ doesn't learn from the Inspector. ng 3) "She was claiming elaborate fine feelings and scruples that were simply absurd in a girl" This is ironic - she is supposed to help women in her role in the charity. 4) "Girls of that class." Prejudiced.					BOX J: The play is set in 1912 but published in 1945 . A 1945 audience would have recognised the huge changes that had taken place in the last 34 years (class distinctions were reduced, women had more rights, the Welfare State had been established. WW1: 1914-1918,		
2) We c refus 3) It is r preg	ald admits affair with Daisy. discover that Mrs Birling sed to offer Eva charity. revealed that Eva was mant. Suspicion turns to Eric	Box H: Sheila	 "I'm not a child." Younger gene 2) "You and I aren't the same peo 3) "Yes – except for all last summe 4) "Fire and blood and anguish." N 5) "It was anything but a joke. Yo the Inspector is saying about re 6) "I was absolutely furious" She i 7) "Mother, I think that was cruel 8) "Half-stifled sob" She makes a 	WW2: 1939-1945. BOX K: Capitalism: -An economic system that is based on the private ownership of industry. It focuses on the individual and often leads to the few, who have money, exploiting the man – the poor. Socialism: - The belief that as a society we have to look our for one another. Rich have a responsibility to look out for					
stole 2) The i the f of so 3) Gera	an money. inspector leaves, lecturing family on the consequences ocial irresponsibility. ald discovers the inspector a fake and there is no	BOX H: Eric	 2) "You're squiffy" He has an alcohol problem. Represents the irresponsible younger generation. 3) "You're beginning to pretend now that nothing's really happened at all." Highlights the hypocritical nature of his parents. 4) "the girl's dead and we all helped to kill her" Takes collective responsibility. 5) "You're not the kind of father a chap can go to when he's in trouble." He doesn't have an open relationship with his parents. 1) She was "warm-hearted". She represents the lower classes. Moralistic. 2) "A nice little promising life there and a nasty mess somebody's made of it" Her death is used by the Inspector to make the other characters learn a lesson. 3) "she died in misery and agony – hating life" She had to commit suicide as her only way to escape the corrupt and immoral 1912 society. 				 the poor. They believe there should be a collapse of the class system. Welfare State: The term for all the organisations designed to help people. Set up in 1945 because of the Labour Party (Priestley helped set this up.) 		
BOX G: - Entra - Inter	rded death of Eva Smith. Dramatic devices AO2: ances and exits rruptions: Inspector rrupts Mr B's capitalist	BOX I: Eva Smith/ Daisy Renton					ardian England: iod covering the reign of King Edward VII 0 but sometimes also includes the years o WW1. rigid class and gender boundaries seemed		
- Dran more stage	Dramatic irony: audience knows more than the characters on stage do Geraid 2) "She told me she had been hap and an upper class 'gentleman			warm-hearted – and intensely grateful." He is superficial and hypocritical. pier than she'd ever been before – but that she knew it couldn't last – hadn't expected it to ' – he chooses to marry Sheila as this looks better in society. e photograph?" He remains unchanged.) last." He is an aristocrat	most of these changes.			
fores later unav - Paus ends	shadow what might happen in the play, e.g. Mrs B = fool, ware that Eric is father. ses: characters pause/ scene for dramatic effect, e.g. e telephone rings sharply"	BOX I : Inspector Goole	3) "disconcerting habit of looking conscience?	nding orse for yourself" Masterful/ systematic/ moral hard at the person he addresses before actually speaking." Is he the mouthpiece of Priestley on, then they will be taught it in fire and blood and anguish." Social responsibility.	y? A ghoul? God? Our own	Birling family stide (Mrs Birling was upper class before she was married). Eva is working class but then working Class			
- Light	ting: "pink and intimate" ghter and harder"	BOX I: Edna	1) She is voiceless 2) She represents the working cla	iss and the 'underdog.'		drops dov the underclas	Working Poor		

	English	n Inspector Ca	alls	Cycle 1	YEAR 10		
BOX L: Char	acter Vocabulary	BOX M: Tier 2 Vocabulary					
Inspector	Omniscient: Knowing everything J.B Priestley presents the Inspector as omniscient		Altruistic Selfless concern for the well-being of others; unselfish. Towards the end of the play, Sheila displays an altruistic attitude				
	Commanding: Dominating; having a position of authority The Inspector has a commanding presence when interrogating the Authoritative: Commanding and self-confident; respected and ok The Inspector questions Mr Birling with an authoritative tone		Benevolent	Well meaning and kindly. J.B Priestley encourages the audience to have a benevolent outlook to society			
Mr Birling	Condescending: Having or showing an attitude of patronising sup	eriority	Bourgeoisie		the capitalist class who own most of society's we rlings are representative of the bourgeoisie	ealth and means of production.	
	Mr Birling speaks in a condescending manner when delivering his s Obstinate: Stubborn, refuses to change opinion Faced with the reality of Eva Smith's death, Mr Birling remains obs	,	Hierarchy		of an organization or society according to w y intends to criticise the societal hierarchy o	•	
	Pompous: Self-important, arrogant, opinionated In the initial stage directions, Mr Birling is presented as pompous		Microcosm				
Mrs Birling	Mrs Birling speaks in a supercilious tone to the Inspector		Oppression		treatment or abuse of power or authority. in the play in terms of gender, class and we		
	Haughty: Stuck up, arrogant, disdainful to those considered infer In the opening, Mrs Birling is presented as 'cold' and haughty Affluent: Having a great deal of money; wealthy J.B Priestley uses Mrs Birling as a symbol of the affluent		Patriarchy		rernment in which men hold the power and aditional patriarchy. He expects to be uncha 1912	•	
Sheila	Infantile: Childish and immature in behavior and outlook. At the start of the play, Sheila is presented as infantile.		Rampant Inequality	• •	and flourishing lack of equality in terms of on the second s	• • • • •	
	Impressionable: Easily influenced Sheila is shown as impressionable and lacking independence at the Repentant: Expressing or feeling sincere regret and remorse Sheila shows how repentant she is when she challenges her parents		Superficial		o be true or real only until examined more hting at the outset of the play represents the		
Eric	Ostracised: Excluded from a group or treated differently; failing t	o fit in	BOX N: Essay vo	cabulary			
	Eric appears an ostracised character who lacks voice at the start. Penitent: Feeling/ showing sorrow and regret for having done wr In contrast to his father, Eric is a penitent character.	•	Criticise	J. B. Priestley criticises th	e exploitative upper class in his play, throug	the use of the Birling family.	
	Misguided: Having/showing faulty judgement or reasoning; lacki Eric could be interpreted as misguided and a victim of his environm		Expose	J. B Priestley uses the com	manding presence of the Inspector to expc	se the upper classes.	
Gerald	Sycophantic: Behaving in a fake and charming way in order to gai Gerald has a sycophantic manner when talking to his soon to be fai Deceptive: Giving an appearance/impression different from the truth	ther in law.	Furthermore	Furthermore, it could als	so show the audience the lasting impact of t	he Inspector.	
	Gerald was deceptive in his affair with Daisy Renton Charismatic: Exercising a compelling charm which inspires confid Gerald has a charismatic aura		Highlights	Sheila returning the ring t	o Gerald highlights her increasing confider	ice.	
Eva	Emblematic: Serving as a symbol of a particular quality or idea		Implies	The lighting becoming 'br	ghter and harder' implies an increase in int	tensity and focus.	
	Eva Smith is emblematic of the exploited, vulnerable working class Anguished: experiencing/ expressing severe mental/ physical pai J.B Priestley presents the audience with the anguished life of Eva Sr	n or suffering	Significantly	Significantly, Eric's role i	n her death is last to be revealed.		

Maths				Cycle 1	Year 10		
BOX 1: Key facts	Symbols	Command word		Definition			
Duranting of shares	= means equal to	Add/Label	Show infor	mation or name something on a	graph, diagram or table.		
Properties of shapes A polygon is a 'many sided shape' with at least three	≠ means not equal to	Calculate		/ork out an answer using numbers from the question. Show working ou			
straight sides. A circle is not a polygon as it has no	\equiv means identical to			(e.g. equation and substitution) and units.			
straight sides. Polygons include triangles (3 sides),	≤ means less than or equal to < means less than	Comment on		a/information and say what you			
quadrilaterals (4 sides), pentagons (5 sides), hexagons (6	\geq means more than or equal to	Compare	Look for the similarities <u>or</u> differences of two (or more) things. Use more, less, similar etc and –er words e.g. slower, longer				
sides), heptagons (7 sides), octagons (8 sides), nonagons	> means more than	Complete					
(9 sides), decagons (10 sides), hendecagons (11 sides),	means square root	Complete		g information to a table/diagram			
dodecagons (12 sides) and so on.		Describe	Describe a process, object or method. Ideas need to be linked in a logical order but do not need to explain.				
	Drawing facts	Determine		the answer can be reached math	nematically.		
In a regular polygon every side is equal and all interior angles are equal.	Diagrams and graphs should	Draw		diagram either using a ruler or u	1		
A triangle has 3 sides. An equilateral triangle is a regular	always be drawn with a pencil and ruler. NOT TO SCALE means the diagram has not been drawn	Estimate	Find an app	proximate number from a table of the line of best fit.			
triangle. In an equilateral triangle all the angles are 60°	accurately and so you can't	Justify	Give evider	nce to support an answer.			
and all the sides are equal length. In an isosceles triangle the base angles are equal. An isosceles triangle has 2	make assumptions about lengths and angles. A protractor	Give/State/ Name/Write	Recall a pie	ce of information such as a keyv	vord or equation.		
sides of equal length. In a scalene triangle no angles and no sides are equal in length.	is used to measure angles. A compass is used to construct	Give a reason/ reasons	Say why so	mething happens.			
	arcs and circles.	Identify	Select key i	nformation from a given questic	on/ diagram/situation.		
A quadrilateral is a four sided shape. The main types of quadrilateral are square, rectangle, rhombus,	Area and Volume conversions	Measure	diagram.	r protractor to determine the di	C		
parallelogram, kite and trapezium. A square is a regular quadrilateral. A square has four equal sides and four angles of 90°. A rectangle has two pairs of equal sides	$1cm^2 = 100mm^2$ $1m^2 = 10,000cm^2 =$	Plot		s on a graph (X's) accurately fro of best fit. Label axes and add a			
and four angles of 90°. A rhombus has four equal sides and the opposite angles are equal. A parallelogram has	$1m^2 = 10,000cm^2 = 1,000,000mm^2$	Show that	•	tatement given in the question i	s right. May require a		
two pairs of equal sides and opposite angles are equal. A kite has two pairs of equal sides and one set of equal angles. There are no parallel sides. A trapezium has one	$1cm^3 = 1000mm^3 = 1ml$ $1m^3 = 1,000,000cm^3 =$	Sketch	Produce a f	reehand drawing and label key f a axis and axis labels and line of			
set of parallel sides. In a regular trapezium there are two sets of equal angles.	1,000,000,000mm ² = 1000 litres	State and explain		nt and link ideas to justify that p cal explanations.	oint. This can include		

Maths

BOX 2: Congruence, similarity and enlargement

CONGRUENCE						
Congruent	Objects with exactly the same shape and size. All angles and all sides are the same .					
Similarity	Two shapes are similar when one is an enlargement of the other. All angles are the same, but the lengths of sides are different.					
Scale factor	The ratio of corresponding sides of two similar shapes.					
SIMILARITY						
If the scale fact Length scale fact Area scale facto Volume scale facto	$r: x^2$					
Enlargement	To change the size of a shape.					
	To enlarge a shape you need a scale factor of enlargement, and sometimes a centre of enlargement .					
	An enlargement with a fractional scale factor makes the shape smaller.					
	An enlargement with a negative scale factor changes the size and flips a shape.					

CONGRUENT TRIANGLES There are three ways to be able to construct a triangle Image: Sast side Angle Side Side Angle Side Use a ruler and protractor Use a ruler and protractor

BOX 3: Trig					
Pythagoras's Th	neorem				
Pythagoras's Th	eorem	A relationship between the 3 sides on a right angled triangle			
Pythagoras' The	orem	$a^2 + b^2 = c^2$			
Pythagoras's Th in 3D	eorem	$a^2+b^2+c^2=h^2$			
TRIGONOMETR	IC RATIO	S			
Sin, Cos, Tan		ith right angled triangles. between 2 lengths and an angle.			
Hypotenuse		ngest side on a right angled triangle. ways opposite the right angle.			
Opposite side		ide depends on the angle you are using (θ le angle opposite θ			
Adjacent side		ide depends on the angle you are using (θ le angle next to θ			
Sin	sin0 =	= <mark>opposite</mark> hypotenuse			
Cos	cosθ	$cos\theta = rac{adjacent}{hypotenuse}$			
Tan		= $rac{opposite}{adjacent}$			

Cycle 1 Year 10 TRIGONOMETRIC RULES (HIGHER) Sine rule Use with **non right angled** triangles. Use when the question involves 2 sides and 2 angles. SinA SinB SinC Sine Rule c (for an angle) а b Sine Rule b а С $\frac{1}{SinA} = \frac{1}{SinB} = \frac{1}{SinC}$ (for a side) Use with **non right angled** triangles. Cosine rule Use when the question involves **3 sides and 1** angle. $a^2 = b^2 + c^2 - 2bcCosA$ Cosine Rule (for a side) $CosA = \frac{b^2 + c^2 - a^2}{2bc}$ Cosine Rule (for an angle) $Area = \frac{1}{2}abSinC$ Area of a triangle (trig)

	0 °	30°	45°	60°	900
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	

Maths

Year 10

BOX 4: Equations and inequalities

INSTRUCTIO	NS: EQUATIONS					
Solve		unknown or variable. ations and the balance method.				
Iterate	Repeatedly carry out When solving using it	t a process. teration, it gives an approximate solution.				
Rearrange	Sometimes called tra	Changing the subject of a formula. Sometimes called transposing. We use inverse operations and the balance method, like when we solve an equation.				
Inverse	The opposite.					
Balance an equation	Do the same to both We use this to solve	sides of the "=" an equation, or rearrange an equation.				
EXPRESSION	S, EQUATIONS, IDENTI	TIES AND FORMULA				
Expression		A set of terms combined using the 2 operations +, -, x or ÷. There is no "=" sign . <i>e.g.</i> 4x-3, 5a - 3xy + 17				
Equation	Where two express e.g. 4b = 18.	ions are equal in value – there is always an "=" sign .				
Inequality	Where two expressions are not equal in value.					
	Strict	< less than > greater than				
	Non-strict	\leq less than or equal to \neq greater than or equal to \Rightarrow				
Formula	A special type of eq e.g. $F = ma^2$	A special type of equation, used to find the value of a specific thing. e.g. $F = ma^2$				
Identity	An equation that is	An equation that is true for all of its variables. $e.g. b + b = 2b$				
Function	A special type of eq	uation where each input has a single output.				
	Input – A variable you choose . Output – A variable that is calculated.					

Subject of an equation	A single unknown or variable that everything else is equal to.
Solution of an equation	A value we can put in place of a variable that makes the equation true .
Simultaneous	Occurring at the same time.
Elimination	To remove or get rid of something.

A polynomial where the highest power of Quadratic x is x² Finding the **roots** of the graph. Solving a There are usually **two** roots / solutions. quadratic A quadratic expression is of the form General quadratic $ax^2 + bx + c = 0$ Where a, b and c are numbers, $a \neq 0$. equation The quadratic $-b \pm \sqrt{b^2 - 4ac}$ x = formula 2a A quantity which **divides equally** into a Factor number. E.g. factors of 8 are 1, 2, 4 and 8. Factorising a E.g. Quadratic: x² + bx + c Factorised form: (x + ?)(x + ?) general quadratic Difference of two *E.g.* $a^2 - b^2$ Factorised form: (a – b)(a + b) squares A quadratic in the form $x^2 + bx + c$ can Completing the be written in the form $(x + p)^2 + q$ square The turning point of the quadratic is (-p,q)

	BOX 5: Simultaneous equations									
		Links to: LINEA	٩R	GRAPHS						
		y = mx + c		The general equation of a linear graph, where m is the gradient and c is the y-intercept.						
		Simultaneous equations (graphically)		Simultaneous inequalities can be solved graphically by plotting the two lines and finding the point where they cross.	Solution					
		Simultaneous inequalities (graphically)		Regions can be shaded that satisfy inequalities: Strict (< or >) are a dashed line) Non-strict (\leq or \geq) are a solid line)						
ľ	N									
		Links to: QUA	DF	RATIC GRAPHS						
		Quadratic graph		graph where the highest p is always a parabola (a U-						
graphs) W ze C w				he 'solutions' of a graph. Vhere a function equals ero. an be found in a graph vhere the curve meets the axis.	Root					
		Turning point	tı p p	he point where a graph urns, from negative to ositive gradient or ositive to negative radient.	Turning					

Cycle 1

	Science - Trilogy Biology	energetics	CY	CLE 1	YEAR 10		
1. Photosynt	thesis		4. Aerobic respiration				
· ·	s an endothermic reaction in which energy is transferred fro ght. Photosynthesis can be represented by the following wo		Cellular respiration is an exothermic reaction which happens all the time in living cells. It can take place aerobically (using oxygen) or anaerobically (without oxygen), to transfer energy.				
	$\begin{array}{c} \text{light} \\ \text{Carbon dioxide + Water} \rightarrow \text{Glucose + Oxygen} \\ 6 \text{CO}_2 + 6 \text{H}_2 \text{O} \rightarrow \text{C}_6 \text{H}_{12} \text{O}_6 + 6 \text{O}_2 \end{array}$		Organisms need energy for:The equation for aerobic respiration is:• chemical reactions to build larger moleculesGlucose + oxygen \rightarrow carbon dioxide + water (+• movement $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$				
	Enters the leaf through diffusion, via small holes called stoma e roots via osmosis and then travels up from the roots due to		5. Anaerobic respiration				
	ed by the chlorophyll; found in the chloroplasts, located in th		The equation for anaerobic respiration	on in muscles is:	Anaerobic respira	ation in plant and yeast cells is:	
Chlorophyll: Gree	en pigment in which chemical reactions take place		Glucose \rightarrow lactic acid			\rightarrow ethanol + carbon dioxide	
2. Limiting fa	actors of Photosynthesis	As the oxidation of glucose is incomp respiration much less energy is trans			ation in yeast cells is called I has economic importance in the		
Limiting factor: e	nvironmental condition which limit the growth of a plant		aerobic respiration.			read and alcoholic drinks.	
Temperature	If it gets too cold, the rate of photosynthesis will decrease gets too hot.	Plants cannot photosynthesise if it	During exercise the human body reacts to the increased demand for energy. The heart rate, breathing rate and				
Carbon Dioxide	Sometimes photosynthesis is limited by the concentration there is plenty of light, a plant cannot photosynthesise if the second						
Light	Without enough light, a plant cannot photosynthesise very intensity will boost the speed of photosynthesis.	/ quickly. Increasing the light					
Maximising grow producing CO2 ar	th: artificial lights so photosynthesis continues beyond daylig nd heat.	th hours, use of paraffin lamps					
-	re important in the economics of enhancing the conditions i the still maintaining profit.	n greenhouses to gain the maximum	7. Metabolism Metabolism is the sum of all the reactions in a cell or the body.				
3. Uses of gl	ucose from photosynthesis		The energy transferred by respiration			e continual enzyme controlled	
The glucose prod used for re	uced in photosynthesis may be:	 processes of metabolism that synthesise new molecules. Metabolism includes: conversion of glucose to starch, glycogen and cellulose the formation of lipid molecules from a molecule of glycerol and three molecules of fatty acids 					
used to pr	oduce fat or oil for storage oduce cellulose, which strengthens the cell wall oduce amino acids for protein synthesis.	 the use of glucose and nitrate ions to form amino acids which in turn are used to synthesise proteins respiration breakdown of excess proteins to form urea for excretion. 					

Science	Trilog	
Science -	- HIIUg	y Diulugy

1. Homeostasis	4. Blood glucose			
Homeostasis is the regulation of the internal conditions of a cell or organism to maintain optimum conditions for function in response to internal and external changes.Homeostasis maintains optimal conditions for enzyme to work. In the human body, these include control of:Automatic control systems may involve nervous or chemical responses. All control systems include: • cells called receptors, which detect stimuli • coordination centres (such as the brain, spinal cord and pancreas) that receive and process information from receptors • effectors, muscles or glands, which bring about responses which restore optimum levels.	Blood glucose concentration is monitored and controlled by the pancreas. If the blood glucose levels are too high, the pancreas produces the hormone insulin that causes glucose to move from the blood into the cells. In liver and muscle cells excess glucose is converted to glycogen for storage. Type 1 diabetes is a disorder in which the pancreas fails to produce sufficient insulin. It is characterised by uncontrolled high blood glucose levels and is normally treated with insulin injections. In Type 2 diabetes the body cells no longer respond to insulin produced by the pancreas. A carbohydrate controlled diet and an exercise regime are common treatments. Obesity is a risk factor for Type 2 diabetes. If the blood glucose concentration is too low, the pancreas produces the hormone glucagon that causes glycogen to be converted into glucose and released into the blood.			
2. The human nervous system	5. Hormones in human reproduction			
The nervous system allows humans to react to their surroundings and coordinate their behaviour. In a typical response the information from receptors pass along neurones as electrical impulses to the central nervous system (CNS). The CNS is the brain and spinal cord. The CNS coordinates the response of effectors which may be muscles contracting or glands secreting hormones. The pathway is: Stimulus → receptor → coordinator → effector → response Reflex actions are automatic and rapid; they do not involve the conscious part of the brain. This makes the process faster and reduces the risk to the body. A reflex arc included the sensory neurone, synapse, relay	 During puberty reproductive hormones cause secondary sex characteristics to develop. Oestrogen is the main female reproductive hormone produced in the ovary. At puberty eggs begin to mature and one is released approx. every 28 days. This is ovulation. Testosterone is the main male reproductive hormone produced by the testes and it stimulates sperm production. Several hormones are involved in the menstrual cycle of a woman. Follicle stimulating hormone (FSH) causes maturation of an egg in the ovary. Luteinising hormone (LH) stimulates the release of the egg. Oestrogen and progesterone are involved in maintaining the uterus lining. 			
neurone, motor neurone and effector.	6. IVF treatment			
3. Human endocrine system The endocrine system is composed of glands which secrete chemicals Pituitary gland	 IVF involves giving a mother FSH and LH to stimulate the maturation of several eggs. The eggs are collected from the mother and fertilised by sperm from the father in the laboratory. The fertilised eggs develop into embryos. At the stage when they are tiny balls of cells, one or two embryos are inserted into the mother's uterus (womb). 			
called hormones directly into the bloodstream. The blood carries the	7. Methods of contraception			
hormone to a target organ where it produces an effect. Compared to the nervous system the effects are slower but act for longer. The pituitary gland in the brain is a 'master gland' which secretes	Fertility can be controlled by a variety of hormonal and non-hormonal methods of contraception. These include: oral contraceptive, injection, implant or skin patch, barrier methods such as condoms and diaphragms, intrauterine devices (IUD), spermicidal agents, abstaining and surgical methods of male and female sterilisation.			
several hormones into the blood in response to body conditions.	8. Negative feedback			
These hormones in turn act on other glands to stimulate other hormones to be released to bring about effects.	Adrenaline is produced by the adrenal glands in times of fear or stress. It increases the heart rate and boosts the delivery of oxygen and glucose to the brain and muscles, preparing the body for 'flight or fight'. Thyroxine from the thyroid gland stimulates the metabolic rate. It is important for growth and development.			

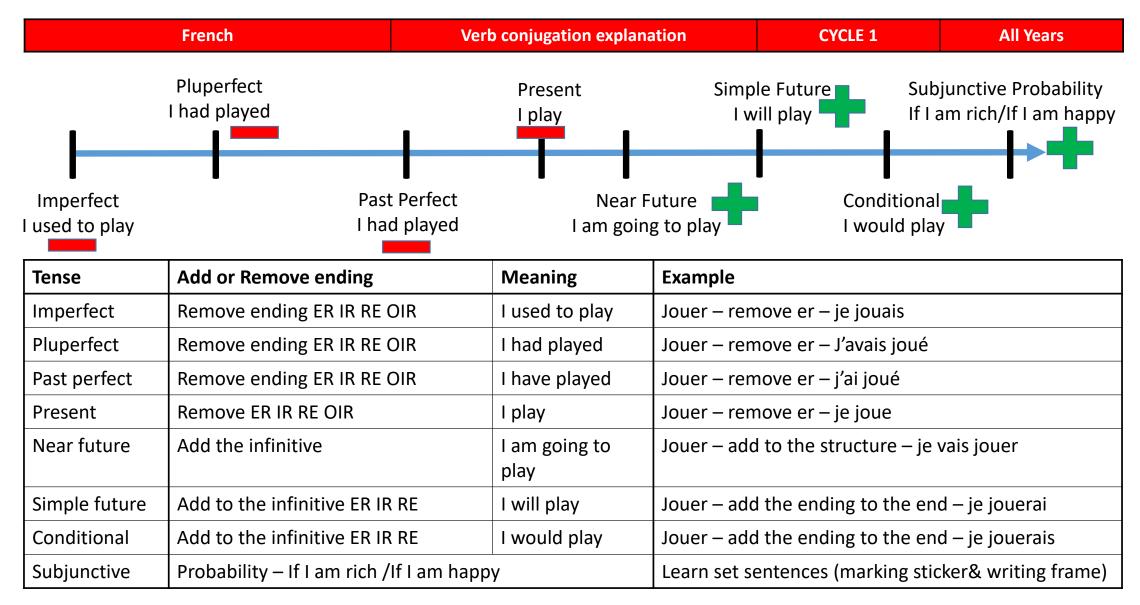
Science - Trilogy Chemistry C3 — Quantitative Ch	nemistry (inc. Separate Chemistry only)	CYCLE 1	YEAR 9			
1. Chemical measurements and conservation of mass	4. Percentage yield					
The law of conservation of mass states that no atoms are lost or made during a chemical reaction so the mass of the products equals the mass of the reactants. This means that chemical reactions can be represented by symbol equations which are balanced in terms of the numbers of atoms of each element involved on both sides of the equation. The relative formula mass (Mr) of a compound is the sum of the relative atomic masses of the atoms in the numbers shown in the formula. In a balanced chemical equation, the sum of the relative formula masses of the reactants in the quantities shown equals the sum of the relative formula masses of the products in the quantities shown.	 some of the product may be lost when it is separated from the reaction mixture some of the reactants may react in ways different to the expected reaction. The amount of a product obtained is known as the yield. When compared with the maximum theoretical amount as a percentage, it is called the percentage yield. % Yield = <u>Mass of product actually made</u> × 100 Maximum theoretical mass of product 5. Atom economy The atom economy (atom utilisation) is a measure of the amount of starting materials that end up as useful products. It is important for sustainable development and for economic reasons to use reactions with high atom 					
Some reactions may appear to involve a change in mass but this can usually be explained because a reactant or product is a gas and its mass has not been taken into account. For example: when a metal reacts with oxygen the mass of the oxide produced is greater than the mass of the metal or in thermal decompositions of metal						
carbonates carbon dioxide is produced and escapes into the atmosphere leaving the metal oxide as the only solid product.						
2. Moles	economy.	ction is calculated using the balance	d aquation for the reaction as follows:			
Chemical amounts are measured in moles. The symbol for the unit mole is mol. The mass of one mole of a substance in grams is numerically equal to its relative formula mass.	The percentage atom economy of a reaction is calculated using the balanced equation for the reaction as follows Relative formula mass of desired product from equation Sum of relative formula masses of all reactants from equation ×100					
One mole of a substance contains the same number of the stated particles, atoms, molecules or ions as one mole of any other substance.	6. Using concentrations of solutions in mol/dm ³					
The number of atoms, molecules or ions in a mole of a given substance is the Avogadro constant. The value of the Avogadro constant is 6.02 x 10 ²³ per mole.	The concentration of a solution can be n The amount in moles of solute or the mo	neasured in mol/dm³.	no of colution can be calculated from			
3. Amounts of substances and limiting reactants	its concentration in mol/dm ³ .	ass in grains of solute in a given vola	ine of solution can be calculated from			
The masses of reactants and products can be calculated from balanced symbol equations.	If the volumes of two solutions that read	ct completely are known and the con	centration of one solution is known,			
Chemical equations can be interpreted in terms of moles. For example:	the concentration of the other solution of	can be calculated.				
$Mg + 2HCI \rightarrow MgCl_2 + H_2$	7. Use of amount of substance in	n relation to volumes of gases	i			
shows that one mole of magnesium reacts with two moles of hydrochloric acid to produce one mole of magnesium chloride and one mole of hydrogen gas.	Equal amounts in moles of gases occup pressure.	y the same volume under the same c	conditions of temperature and			
In a chemical reaction involving two reactants, it is common to use an excess of one of the reactants to ensure that all of the other reactant is used. The reactant that is completely used up is called the limiting reactant because it limits the amount of products.	The volume of one mole of any gas at ro The volumes of gaseous reactants and					

Science: Trilogy Chemistry				C4: Chemical Changes (inc. Separate Chemistry only)			CYCLE 1	Year 10			
1. Reactivity series						3. Acids and alkalis		·			
Metals react with oxygen to produce metal	Metal		Rea	activity		Acids produce hydrogen ions (H ⁺) in	aqueous solutions.				
oxides. The reactions are oxidation reactions	Potassium				Very	Aqueous solutions of alkalis contain	, , ,				
because the metals gain oxygen.	Sodium	React			reactive		sure of the acidity $(0 \rightarrow 6)$ or alkalinity $(8 \rightarrow 6)$				
When metals react with other substances the	Lithium	with				-	or a pH probe. A solution with pH 7 is ne				
metal atoms form positive ions.	Calcium	water					an acid and an alkali, H ⁺ react with OH ⁻ t ions that react with each other can be m				
Metals can be arranged as a reactivity series in			_			indicator.		ang a suitable			
order of how readily they react with other	Magnesium	-	React			A strong acid (Hydrochloric, nitric, sulphu	ric acid) is completely ionised in aqueous	solution. A weak acid (ethanoic, citric and			
substances.		-	with			carbonic acid) is only partially ionised i	n aqueous solution. The stronger an acid	d, the lower the pH. As the pH			
Some metals react with acids to produce salts	Aluminium	-	acid	React with oxygen		decreases by one unit, the hydroge	decreases by one unit, the hydrogen ion concentration of the solution increases by a factor of 10.				
and hydrogen.	Carbon	-				4. Electrolysis					
A more reactive metal can displace a less	Zinc	-				· ·	or dissolved in water, the ions are free to				
reactive metal from a compound.	Iron						s are able to conduct electricity and are or electrolytes causes the ions to move to t	•			
Unreactive metals such as gold are found in the	Tin						e cathode), and negatively charged ions r	, 8			
Earth as the metal itself but most metals are	Lead						electrodes producing elements. This proc				
found as compounds that require chemical							g. lead bromide) is electrolysed in the mo				
reactions to extract the metal.	Hydrogen					metal (lead) is produced at the cathode and the non-metal (bromine) is produced at the anode.					
Metals less reactive than carbon can be	Copper	-				5. Using electrolysis to extrac					
extracted from their oxides by reduction with	Silver	-					en compounds using electrolysis. Electrol arbon or if the metal reacts with carbon.				
carbon.		-			-		compounds and to produce the electrical				
Reduction involves the loss of oxygen.	Gold	-			Very		electrolysis of a molten mixture of alumin	nium oxide and cryolite using carbor			
2. Reactions of acids					unreactive	 as the positive electrode (anode). 6. Electrolysis of aqueous sol 	utions and half aquations				
Acids react with some metals to produce salts and	d hydrogen						bus solution is electrolysed using inert ele	ectrodes depend on the relative			
Acids are neutralised by alkalis (e.g. soluble meta		hases (e.g	insoluble r	netal hydro	vides and	reactivity of the elements involved.					
metal oxides) to produce salts and water, and by	metal carbonates	s to produc	e salts, wat	er and carb	on dioxide.), hydrogen is produced if the metal is mo ns are reduced by gaining an electron [2]	, -			
Acid + Alkali → Salt + Water Sulphuri The particular salt produced in any reaction betw						At the positive electrode (anode), o	xygen is produced unless the solution co oxidised and lose electrons. $[4OH^- \rightarrow O_2 +$	ntains halide ions when the halogen			
• the acid used (hydrochloric acid produces			•		cid produces	This happens because in the aqueor	us solution water molecules break down	2 -			
sulphates)						hydroxide ions that are discharged.		1			
the positive ions in the base, alkali or carbo	unate.					IN.B. OILKIG – Oxidation is the loss of	of electrons and r eduction i s the g ain of e	electrons.			

Science	- Trilogy Physics	2 – Electricity (inc.	Separate Physics only)	CYCLE	E 1	YEAR 10	
1. Circuit symbols	2. Current, potential difference and resis	stance	3. Series and parallel circuits				
→ o→ switch (open) → o→ switch (closed) → + → cell	For electrical charge to flow through a closed circ source of potential difference. Electric current is a flow of electrical charge. The the rate of flow of electrical charge. Charge flow (in coulombs) = current (in Amps) × A current has the same value at any point in a sin	size of the electric current is time (in seconds) [Q = I t]	There are two ways of joining electric For components connected in series : • there is the same current through e • the total potential difference of the shared between the components • the total resistance of two compor	each component e power supply is •	For components co • the potential diff the same • the total current	onnected in parallel : ference across each component is through the whole circuit is the sum ough the separate components	
-+ battery	The current (I) through a component depends on component and the potential difference (V) across the resistance of the component the smaller the o	both the resistance (R) of the ss the component. The greater	the resistance of each component. $R_{total} = R1 + R2$ (in ohms, Ω) 4. Domestic uses and safety	•	 the total resistant 	nce of two resistors is less than the mallest individual resistor.	
resistor	difference (pd) across the component. pd (in volts) = current (in Amps) × resistance (in a The current through an conductor (at a constant	Current	In the UK, mains electricity is an ac su Most electrical appliances are connected colour coded for easy identification: The live wire carries the alternating p	cted to the mains using live wire – brown, neu	g three-core cable tral wire – blue, ea	e. The insulation covering each wire is arth wire – green & yellow stripes.	
	temperature) is directly proportional to the potential difference across the resistor. This means that the resistance remains constant as the current changes.	Potential difference	The earth wire is a safety wire to stop 5. Energy transfers power = potential difference × curre			< resistance [P = I ² R]	
- lamp	The resistance of components such as lamps, diodes, thermistors and LDRs is not constant; it changes with the current through the	Current	The amount of energy an appliance t power of the appliance. Work is done electrical work can be calculated usir energy transferred = power × time [E	e when charge flows in ng the equation:	a circuit. The amo	ount of energy transferred by	
V voltmeter	component. The resistance of a filament lamp increases as the temperature of the filament increases.	Current	The National Grid is a system of cable transformers are used to increase the then step-down transformers are use	e potential difference f	from the power st	ation to the transmission cables	
thermistor	The current through a diode flows in one direction only. The diode has a very high resistance in the reverse direction.	Potential difference	6. Static electricity When certain insulating materials are charged electrons are rubbed off one negatively charged. The material tha Two objects that carry the same type Attraction and repulsion between two	material and on to the t loses electrons is left of charge repel. Two c	e other. The mater with an equal posi objects that carry o	rial that gains electrons becomes itive charge. different types of charge attract.	
\bigcirc	The resistance of a thermistor decreases as the te The resistance of an LDR decreases as light intens	•	A charged object creates an electric f The further away from the charged o experiences a force. The force gets st	bject, the weaker the f	field. A second cha	rged object placed in the field	

French			Key Informati	Key Information			CYCLE 1		All Years
Les jours de la semaine		Les nombre	es en français	_					
lundi	0 zero	10 dix	20 vingt	30 trente					
lundi	1 un	11 onze	21 vingt-et-un	31 trente-e	et-un				
mardi	2 deux	12 douze	22 vingt-deux	32 trente-c	leux		F ire in		
indial	3 trois	13 treize	23 vingt-trois	33 trente-t	rois		Fren	ch SPAG	тагкіпд
mercredi		14 quatorze	24 vingt-quatre	34 trente-c	luatre				
		15 quinze	25 vingt-cinq	35 trente-c	inq	sp	Spelli	ing	
jeudi	6 six	16 seize	26 vingt-six	36 trente-s	ix	-	•	•	
	7 sept	17 dix-sept	27 vingt-sept	37 trente-s	ept	art	Articl	е	
vendredi	8 huit	18 dix-huit	28 vingt-huit	38 trente-h	nuit		/ 0.0.	•	
camadi	9 neuf	19 dix-neuf	29 vingt-neuf	39 trente-r	leuf	vb	Verb		
samedi	40 quarante	50 cinquante	60 soixante	70 soixante	e-dix	V N	VCID		
dimanche	41 quarante-et-un	51 cinquante-et-un	61 soixante-et-un	71 soixante	e-onze	-	Tamaa		
umanene	42 quarante-deux	52 cinquante-deux	62 soixante-deux	72 soixante	e-douze	T	Tense		
Les mois	43 quarante-trois	53 cinquante-trois	63 soixante-trois	73 soixante	e-treize	_	• ·		
	44 quarante-quatre	54 cinquante-quatre	64 soixante-quatre	74 soixante	e-quatorze	Acc	Accer	nt	
janvier	45 quarante-cinq	55 cinquante-cinq	65 soixante-cinq	75 soixante	e-quinze				
	46 quarante-six	56 cinquante-six	66 soixante-six	76 soixante	e-seize	adj	Adied	ctive inco	rrect/agreement
février	47 quarante-sept	57 cinquante-sept	67 soixante-sept	77 soixante	e-dix-sept		- ,		
	48 quarante-huit	58 cinquante-huit	68 soixante-huit	78 soixante	e-dix-huit	C	Capit	al	
mars	49 quarante-neuf	59 cinquante-neuf	69 soixante-neuf	79 soixante	e-dix-neuf		Cupit		
avril	80 quatre-vingt		90 quatre-vingt-dix				Mron	aword	
aviii	81 quatre-vingt-et-un		91 quatre-vingt-onze			ww		ng word	
mai	82 quatre-vingt-et-deux		92 quatre-vingt-douze				<u> </u>	,	
	83 quatre-vingt-et-trois		93 guatre-vingt-treize			?	Re-pr	nrase/no	sense
juin	84 quatre-vingt-et-quatre		94 guatre-vingt-guatorze	2					
	85 quatre-vingt-et-cinq		95 quatre-vingt-quinze				Word	l re-order	•
juillet	86 quatre-vingt-et-six		96 quatre-vingt-seize						
a a î t	87 quatre-vingt-et-sept		97 quatre-vingt-sept						
août	88 quatre-vingt-et-huit		98 quatre-vingt-dix-huit						
septmebre	89 quatre-vingt-et-neuf		99 quatre-vingt-dix-neuf						
octobre	100 cent	600 six cents	105 cent cinq		1,001 mil	lle et un		74,000	soixante-quatorze mille
	200 deux cents	700 sept cents	149 cent quarante	-neuf	1,500 mil	lle cinq cents		100,000	cent mille
novembre	300 trois cents	800 huit cents	181 cent quatre-vi	ngt-un	1,766 sep	ot cent soixante	six	1,000,000	un million
	400 guatre cents	900 neuf cents	501 cing cent un	-		ux mille un		3,000,000	trois millions
décembre	500 cing cents	1,000 mille	565 cinq cent soixa	ante-cina	,	arante mille		1,000,000,000	un-millard

ch		Ma	rking Sticker	CYCL	E 1	
Title:						
<u>Detail</u>	www	<u>EBI</u>	Tenses	www	<u>EBI</u>	
Connectives	123		Present tense	123		
Opinions	123		Past Perfect	123		
Reasons (adjectives)	123		Imperfect	123		
Intensifiers	123		Conditional	123		
Time expressions	123		Simple Future	123		
Adverbs	123		Pluperfect	123		
Negetives	123		Perfect Conditional	123		
Negatives	1 2 3		Subjunctive	1		
Comparatives	plus moins		Modal Verbs	1		
	le plus le moins		Other Persons	123		
Superlatives	le meilleur		Quality of Work	Si j'avais le choix		
Si clause	123					
Openers	123		1 Excellent	Quand j'étais plus jeune		
Exclamation	123		2 Good	Pour que je sois contente		
Questions	123		2 3000	Quand je serai plus âgé		
Total:			4 Poor	vu que		
				tandis que		
				Si je pourrais		
				Pour que je puisse		



*imperfect and conditional share endings

French		French Literacy Mat		CYCLE 1	All Years	
Connectives car / parce que = because puisque = since aussi = also donc = therefore puis = then après = after Ensuite = next/then ou = or cependant = however par conséquent = as a result étant donné que = given that tandis que = whereas vu que = considering that Malgré = despite Afin que = so that Pourvu que = given that Sauf = except	Subjunctive Pour que je sois = so that I am Pour que je puisse = so that I can Il faut que = It is necessary that Il est essential qu'il aie = it is essential that Il est necessaire qu'on fasse = it is necessat Questions Pourquoi? = Why Qui? = Who? Quand? = When? Comment? = How? Que = What? N'est-ce pas? = Isn't it? As-tu / Avez-vous? = Do you have? Intensifiers très = very		Adverbs d'habitude = Usually normalement = norm quelquefois = someti tous les jours = every généralement = gene Superlatives le / la moins = the lea le / la plus = the mos le / la pire = the wor le / la mieux = the be Exclamation Quel surprise! = What Quel chance! = What Quel dommage! = W	ally c'est. c'éta mes ce se day ce se rally intér passi ast symp st épou st triste est affre épou bizar t a surprise! sale iluck! prop hat a shame! bruy	sons (Adjectives) = it is it = it was ra = it will be rait=it would be essant = interesting onnant = exciting oa = nice stouflant = mind-blowing e = sad ux = terrible ivantable = dreadful re = strange = dirty re = clean ant = noisy quille = calm	
Magré = despite En outre furthermore Pour que = so that Openers D'abord = firstly Par contre = On the other hand Premièrement = Firstly Deuxièment = Secondly Troisièmement = Thirdly Finalement = Finally Pour moi = As for me	tres = very assez = quite un peu = a little vraiment = really beaucoup = a lot Complex Opinions Je pense que = I think that J'estime que = I consider that Je crois que = I believe that II me semble que = It seems to me that Je trouve que = I find that À mon avis = in my opinion En ce qui me concerne = Concerning me Je suis d'accord car = I agree because	Adjectival Agreement un garçon intelligent = a clever boy une fille intelligente = a clever girl un pull bleu = a blue jumper une veste grise = a grey blazer une cravate violet <u>te</u> = a purple tie une chemise blanc <u>he</u> = a white shirt	Negatives ne pas = not ne jamais = never ne que = only ni ni = neither nor ne plus = not anym Comparatives plus que = more t moins que = less t	beau cher diffé ennu mau pare ore vieux prop facile han mocl than gran	/joli = nice = expensive rent = different iyeux = boring vais/mal = bad sseux = lazy c = old re = clean e = easy ne/ laid = ugly d = big = small	

	French		Ve	rbs	CYC	CLE 1	All Years						
Pluperfect Past Imperfect Past Perfect			Present Tense	Near Future	Simple Future	Conditional	Perfect Conditional						
	INFINITIVE: porter = to wear (Regular er)												
I had worn	I used to wear	l wore	I am wearing/I wear	I am going to wear	l will wear	l would wear	I would have worn						
Je (J') avais porté Tu avais porté II avait porté Elle avait porté On avait porté Nous avions porté Vous aviez porté Ils avaient porté	Je (J') port ais Tu port ais II port ait Elle port ait On port ait Nous port ions Vous port iez Ils port aient Elles port aient	Je (J') ai porté Tu as porté II a porté Elle a porté On a porté Nous avons porté Vous avez porté Ils ont porté Elles ont porté	Je (J') port e Tu port es II port e Elle port e Nous port ons Vous port ez IIs port ent Elles port ent	Je (J') vais porter Tu vas porter II va porter Elle va porter Nous allons porter Vous allez porter Ils vont porter Elles vont porter	Je (J') porter ai Tu porter as II porter a Elle porter a On porter a Nous porter ons Vous porter ez Ils porter ont Elles porter ont	Je (J') porter ais Tu porter ais II porter ait Elle porter ait On porter ait Nous porter ions Vous porter iez Ils porter aient Elles porter aient	Je (J') aurais porté Tu aurais porté II aurait porté Elle aurait porté On aurait porté Nous aurions porté Vous auriez porté Ils auraient porté Elles auraient porté						
	INFINITIVE: finir = to finish (ir)												
I had finished	I used to finish	I finished	I am finishing/ I finish	I am going to finish	I will finish	I would finish	I would have finished						
Je (J') avais fini Tu avais fini II avait fini avait fini avait fini avait fini Nous avions fini Vous aviez fini Ils avaient fini Elles avaient Fini	Je (J') finiss ais Tu finiss ais II port ait Elle finiss ait On finiss ait Nous finiss ions Vous finiss iez Ils finiss aient Elles finiss aient	Je (J') ai fini Tu as fini II a fini Elle a fini On a fini Nous avons fini Vous avez fini Ils ont fini Elles ont fini	Je (J') fin is Tu fin is II fin it Elle fin it On fin issons Vous fin issent Ils fin issent Elles fin issent	Je (J') vais finir Tu vas finir II va finir Elle va finir On va finir Nous allons finir Vous allez finir Ils vont finir Elles vont finir	Je (J') finir ai Tu finir as II finir a Elle finir a On finir a Nous finir ons Vous finir ez IIs finir ont Elles finir ont	Je (J') finir ais Tu finir ais II finir ait Elle finir ait On finir ait Nous finir ions Vous finir iez IIs finir aient Elles finir aient	Je (J') aurais fini Tu aurais fini II aurait fini Elle aurait fini On aurait fini Nous aurions fini Vous auriez fini Ils auraient fini Elles auraient fini						
	1		INFINITIVE: atter	ndre = to wait (re)	•	•	•						
I had waited	I used to wait	l waited	I am waiting/ I wait	I am going to wait	I will wait	I would wait	I would have waited						
Je (J') avais atten Tu avais atten II avait atten Elle avait atten On avait atten Nous avions atten Vous aviez atten IIs avaient atten Elles avaient atten	Iu Tu attend ais Iu II attend ait Iu Elle attend ait Iu On attend ait Iu On attend ait Iu Nous attend ions Iu Yous attend iez Iu Ils attend aient	Je (J') ai attendu Tu as attendu II a attendu Elle a attendu On a attendu Nous avons attendu Vous avez attendu IIs ont attendu Elles ont attendu	Je (J') attend s Tu attend s II attend _ Elle attend _ Nous attend ons Vous attend ez Ils attend ent Elles attend ent	Vous allez attendre	Tu attendr as II attendr a Elle attendr a On attendr a Nous attendr ons Vous attendr ez IIs attendr ont	Je (J') attendr ais Tu attendr ais II attendr ait Elle attendr ait On attendr ait Nous attendr ions Vous attendr iez Ils attendr aient Elles attendr aient	Je (J') aurais attendu Tu aurais attendu II aurait attendu Elle aurait attendu On aurait attendu Nous aurions attendu Vous auriez attendu Ils auraient attendu Elles auraient attendu						

French	Verbs	CYCLE 1	All Years
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				Present Te	ense Regular Verbs			
	ER verb h	abiter = to live	finir = to finish	RE verb attendre = to wait				
Je (J') Tu II Elle On Nous Vous Ils Elles	habit e habit es habit e habit e habit e habit ons habit ez habit ent	l live You live (s/informal) He lives She lives We live We live You live (pl/formal) They live (m/mixed) They live (f)	Je (J') Tu II Elle On Nous Vous Ils Elles	fin is fin is fin it fin it fin issons fin issent fin issent	l finish You finish (s/informal) He finishes She finishes We finish We finish You finish (pl/formal) They finish (m/mixed) They finish (f)	Je (J') Tu II Elle- On Nous Vous Ils Elles	attend s attend s attend _ attend _ attend _ attend ons attend ez attend ent attend ent	l wait You wait (s/informal) He waits She waits We wait We wait You wait (pl/formal) They wait (m/mixed) They wait (f)

	Present Tense Irregular Verbs												
	avoir =	to have		être :	= to be		faire	e = to do		alle	r = to visit		
Je (J') Tu II Elle On Nous Vous Ils Elles	ai as a a avons avez ont ont	l have You have (s/informal) He has She has We have We have You have (pl/formal) They have (m/mixed) They have (f)	Je (J') Tu II Elle On Nous Vous Ils Elles	suis es est est sommes êtes sont sont	l am You are (s/informal) He is She is We are We are You are (pl/formal) They are (m/mixed) They are (f)	Je (J') Tu II Elle On Nous Vous Ils Elles	fais fais fait fait fait faisons faites font font	l do You do (s/informal) He does She does We do We do You do (pl/formal) They do (m) They do (f)	Je (J') Tu II Elle On Nous Vous IIs Elles	vais vais va va va allons allez vont vont	l go You go (s/informal) He goes She goes We go We go You go (pl/formal) They go (m/mixed) They go (f)		

French

Verbs

Δ	Years
	ilcuis

CYCLE 1

Present Tense	Past Perfect	Immediate Future	Conditional	Simple Future	Past Imperfect	Past Pluperfect	Perfect Conditional		
			INFINITIVE: aller	= to go (Irregular)					
I am going / I go	I have gone / I went	I am going to go	I would go	I will go	I was going / I used to go	I had gone	I would have gone		
Je (J') v ais Tu v as II v a Elle v a On v a Nous all ons Vous all ez Ils v ont Elles v ont	Je (J') suis allé(e) Tu es allé(e) II est allé(e) Elle est allé(e) On est allé(e) Nous sommes allé(e) Vous êtes allé(e/ IIs sont allé(e/ Sont allé(e/) Vous allez aller) Ils vont aller	Je (J') ir ais Tu ir ais II ir ait Elle ir ait On ir ait Nous ir ions Vous ir iez IIs ir aient Elles ir aient	Je (J') ir ai Tu ir as II ir a Elle ir a On ir a Nous ir ons Vous ir ez IIs ir ont Elles ir ont	Je (J') all ais Tu all ais II all ait Elle all ait On all ait Nous all ions Vous all iez Ils all aient Elles all aient	Je (J') étais allé(e) Tu étais allé(e) II était allé(e) Elle était allé(e) On était allé(e) Nous étios allé(e/s) Vous étiez allé(e/s) Ils étaient allé(e/s) Elles étaient allé(e/s)	Je (J') serais allé(e) Tu serais allé(e) II serait allé(e) Elle serait allé(e) Nous serions allé(e/s) Vous seriez allé(e/s) Ils seraient allé(e/s) Elles seraient allé(e/s)		
	ļ		INFINITIVE: faire = to	o do / make (Irregular)	ļ	ļ			
I am doing/ I do	I have done / I did	I am going to do	I would do	I will do	I was doing / I used to do	I had done	I would have done		
Je (J') f ais Tu f ais II f ait Elle f ait On f ait Nous f aisons Vous f aitez Ils f ont Elles f ont	Je (J') ai fait Tu as fait II a fait Elle a fait On a fait Nous avons fait Vous avez fait Ils ont fait Elles ont fait	Je (J') vais faire Tu vas faire II va faire Elle va faire Nous allons faire Vous allez faire Ils vont faire Elles vont faire	Je (J') fer ais Tu fer ais II fer ait Elle fer ait Nous fer ions Vous fer iez Ils fer aient Elles fer aient	Je (J') fer ai Tu fer as II fer a Elle fer a On fer a Nous fer ons Vous fer ez IIs fer ont Elles fer ont	Je (J') fais ais Tu fais ais II fais ait Elle fais ait Nous fais ions Vous fais iez IIs fais aient Elles fais aient	Je (J') avais fait Tu avais fait II avait fait Avait fait	Je (J') aurais fait Tu aurais fait II aurait fait Con aurait fait Nous aurions fait Vous auriez fait IIs auraient fait Elles auraient fait		
	(e)(s) - to climb (e)(s) - to return s) - to go out e)(s) - to come - to go			Devenir – je suis devenu(e)(s) - to become Entrer – je suis entré(e)(s) - to enter Rentrer – je suis rentré(e)(s) - to re-enter Tomber – je suis tombé(e)(s) - to fall Retourner – je suis retourné(e)(s) - to return Arriver- je suis arrivé(e)(s) - to arrive Mourir – je suis mort(e)(s) - to die Partir – je suis parti(e)(s) - to leave					

	French				Relations	hips			СҮС	LE 1		Year 10		
	Week 1							V	Veek 2					
Relations	hips - Verbs	Relations	hips - Verbs		Relationships – Family members and friends									
se fâcher	to get angry	supporter	to bear		mon père/ m	a mère	my dao	d/mum	ma cop	oine/mon copain		my friend		
s'énerver	to get annoyed	habiter	to live		mon grand-pe	ère	my gra	nd-father	mon p	etit copain		my boyfriend		
s'entendre bien/mal	to get on well/badly	vivre	to live		mon cousin/r	na cousine	my cou	usin	ma fan	nille		my family		
discuter	to discuss	se séparer	to seperat	e	mon oncle/m	a tante	my une	cle/auntie	mon b	eau père/ma belle n	nère	my step dad/mum		
se disputer	to argue	se divorcer	to divorce		mon neveu/n	na nièce	my nie	ce	mon ai	mi/mon amie		my friend		
améliorer	to improve	respecter	to respect		mon fils/ ma	fille	my sor	n/daughter	mon/n	na/mes		my		
se battre	to fight	tricher	to cheat		mon frère/ma	a soeur	my bro	other/sister	ton/ta,	/tes		yours		
s'amuser	to have fun	choisir	to choose		mon mari/ma	femme	my hus	sband	son/sa/ses			his/hers		
s'épouser	to marry	sentir	to feel		mon épouse		my par	tner in marrige	leur/le	urs		theirs		
v	/eek 3				Week	: 4					Week 5 areers - Jobs			
Physical	Description	Rela	Relationships - Adje		ves	li li	mprove	Relationships		Ca	areers -	Jobs		
les cheveux/les yeux	hair/ eyes	gentil/gentille		kind		réduire		to reduce		un psychologue	a psy	chologist		
petit (e)/grand (e)	short / tall	méchant/méc	hante	mear	า	augmenter		to increase	un médecin a		a doc	tor		
de taille moyenne	of average height	paresseux/pa	resseuse	lazy		baisser		to turn down	un architecte		an ar	chitect		
gros/ mince	fat / thin	timide/bavard	l (e)	shy/c	chatty	parler		to talk		un enseignant(e)	a prir	nary school teacher		
barbe/moustache	beard / moustashe	drôle/sympa		funn	y/kind	écouter	écouter to listen			un agent	an ag	ent / officer		
joli (e)/ laid (e)	pretty / ugly	actif/active		activ	e	passer du temps to spen		to spend time		un policier (ère)	a poli	ce officer		
belle/beau/moche	pretty / handsome / ugly	ennuyeux/enr	nuyeuse	anno	ying	comprendr	e	to understand		un pompier	a fire	man		
élegant/élégante	elegant	marrant/marr	ante	hilari	larious resp		to respect			un ingénieur	an engineer			
jeune/vieux	young / old	genéreux/gén	éreuse	gene	rous	crier/rier		to cry/laugh		un fermier (ere)	a nur	se		

	French				Relationships
		Week 6			
Relationshi	ps - Verbs	Re	latior	nships - Verbs	
Se fâcher	To get angry	Supporter	To be	ear	
S'énerver	To get annoyed	Habiter	To liv	/e	
S'entendre bien/mal	To get on well/badly	Vivre	to liv	/e	
Discuter	To discuss	Se séparer	To se	eperate	
Se disputer	To argue	Se divorcer	To di	vorce	
Améliorer	To improve	Respecter	To re	espect	
Se battre	To fight	Tricher	To ch	neat	
S'amuser	To have fun	Choisir	To ch	noose	
S'épouser	To marry	Sentir	To fe	el	



CYCLE 1

Year 10

			v	/eek 7			
			Marr	iage Plans			
l'amour	Love	une grande fête	a big celebration	vivre en concoubinage	to co-live	concentrer sur ma carrière	to concentrate on my career
j'ai confiance en	I trust in	démodé	outdated	je suis en couple	I am in a couple	les advantages	the advantages
j'ai envie de	I want to	inutile	useless	la mode de vie	the style of life	les inconvénients	the disadvantages
charmant (e)	Charming	pénible	a pain	il me fait rire	he makes me laugh	c'est moins cher	it is less expensive
élever	To raise	vouloir des enfants	to want kids	se remarier	to re-marry	partager le prix	to share the price
exprimer	To express	toute la vie	for life	se séparer	to seperate	acheter une bague	to buy a ring
je viens de fêter	I have just celebrated	je suis fidèle	I am loyal	vivre ensemble	to live together	s'occupier des enfants	to look after children
je suis promis à	I am promised to	un morceau de papier	a piece of paper	se divorcer	to divorce	tomber amoureux	to fall in love
mon fiancé	My fiancé	rester célèbataire	to stay single	je suis heureux/mécontent	I am happy/unhappy	rester à la maison	to stay at home

21

	French		Неа	lthy Lifestyle		CY	CLE 1	Year 10
		Week 8		v	Veek 9		Wee	k 10
	Healt	hy Lifestyle Verbs		Healthy L	ifestyle Verbs		Food and D	rink Nouns
maintenir la forme	to stay in shape	exercer	to exercise	améliorer	to improve	le po	isson	fish
réveiller	to wake up	éviter	to avoid	distraire	to entertain	le po	ulet	chicken
déjeuner	to have lunch	fumer	to smoke	sentir	to feel	les o	eufs	eggs
se lever	to get up	concerner	to be concerned	maigrir/grossir	to slim down / to put on weight	le riz		rice
se coucher	to go to bed	célébrer	to celebrate	fatiguer	to be tired	le pa	in	bread
cuisiner	to cook	prendre	to take	promener	to walk	les ce	éréales	cereals
choisir	to choose	changer	to change	garder	to keep	de l'eau		some water
consommer	to consume / use	adapter	to adapt	perdre	to loose	les légumes		vegetables
essayer	to try	entraîner	to train	remplacer	to replace	o replace les huiles		oils
motiver	to motivate	endormir	to fall asleep	empêcher	to prevent	le sel		salt
Wee	ek 10			,	Week 11			
Food and D	Prink Nouns	Complex	c Opinions	4	Adjectives		Healthy/U	nhealthy foods
les bonbons	sweets	il me semble que	it seems to me that	rafraichissant	refreshing		les calories	calories
le beurre	butter	je crois que	I believe that	piquant/épicé	spicy	les glucides/ les g		fats
la viande rouge	red meat	je pense que	I think that	salé	salty		les protéines	protein
les pâtes	pasta	d'après moi	according to me	dégoutant	disgusting	le sel/salé		salty
le lait	milk	ce n'est pas facile de	It is not easy	affreux	awful		la portion/ quantité	portion/quantity
le fromage	cheese	je préfère	l prefer	délicieux	licieux delicious		végétarien	vegetarian
les frites	chips	je trouve que	I find that	sucré sugary			la viande	meat
les sucreries	sweets / candy	c'est pénible de	It is a pain to	ça me fait vomir	it makes me vomit	it makes me vomit la restauration ra		fast food
le chocolat	chocolat	c'est frustrant que	It is frustrating that	gras	greasy		faim/ soif	hungry/thirsty

	French		Healt	hy Li	festyle			CYC	CLE 1		Year 10
			V	Neek 1	.2						
Adverbs/Time	e Expressions	Mealtir	nes		Past im	nperfect	:		Immediate Futur	re vs S	Simple Future
souvent	often	le matin	the morning	je ma	angais	l used	to eat	on po	urra	we v	will be able to
rarement	rarely	l'après-midi	the afternoon	je bu	vais	l used	to drink	je fera	ii	l wil	l do
absolument	absolutely	le soir	the evening	je so	rtais	l used	to go out	j'irai		l wil	l go
bien / mal	good/bad	la nuit	the night	je co	nsumais	I used	to consume	je vou	drai	l wil	l want
lentement	slowly	pendant la semaine	during the week	je fai	sais	I used	to do	je dev	rai	l wi	ll have to
jamais	never	les weekends	on the weekends	je pr	enais	I used	to take	je sera	ai	l wil	l be
régulièrement	regular;y	le petit - déjeuner	breakfast	je vo	ulais	I used	to want	j'aurai		l wil	l have
trop	too much	le goûter	snack	je po	uvais	I used	to be able to	il faud	ra	we	will have to
un peu	a little	le déjeuner	lunch	je de	e devais I used to ha		I used to have to je		je vais + inf		going to + inf
des fois	sometimes	le dîner	dinner	j'avai	s/j'étais	I used	to have/be	nous	allons +inf	We	are going to + inf
			N	Neek 1	.3	-				-	
	Improve	your lifestyle						Ва	d Habits		
changer de style de vie	change lifestyle	gagner du poids	to gain weight		les drogues		drugs		diminuer les effets		reduce the effects
réussir à eviter	to manage avoiding	maigrir urgemment	to slim urgently		l'alcool		alcohol		un relaxant		sedatif
faire de l'exercise	to do exercise	entraîner régulièrement	to train regularly	,	les mélanges /premix		mixing alcoho	bl	une addiction		an addiction
manger plus sainement	to eat more healthy	contrôler les portions	to control portio	ns	quelques verr	es	some glasses		devenir dependant		to become dependant
compter les calories	count calories	sentir mieux	to feel better		un alcoolique		an alcoholic		donner de la confia	nce	to give confidence
etre fatigué	to be tired	avoir plus d'énergie	to have more en	ergy	s'injecter		to inject your	self	sentir mal		to feel bad
se coucher plus tôt	to go to bed earlier	etre en bonne santé	to be in good he	alth	fumer		to smoke		vomir		to vomit
eviter de se lever tard	to avoid waking up late	baisser la chance de	to reduce the ch of	ance	inhaler		to inhale		le système respirato	oire	respiratory system
demander de l'aide	to ask for help	améliorer la confiance	to improve confidance		les cicatrices		scars		commettre un suici	de	commit suicide

	Geography		The Livir	ng Wor	ld		CY	CLE 1	Y	EAR 10
Quiz	Key Knowledge		Quiz			Key I	Knowledge to lea	irn		
1	1 KEY TERMS Ecosystem - a system in which organisms interact with each other and with their environment. Ecosystem's Components Abiotic - These are non-living, such as air, water, heat and rock. Biotic - These are living, such as plants, insects, and animals. Flora - Plant life occurring in a particular region or time. Fauna - Animal life of any particular region or time. Food web and Chains Simple food chains are useful in explaining the basic principles behind ecosystems. They show only one					biome is a large ical area of disting animal groups, w ed to that particul ent. The climate a y of a termines what typ n exist in that region is diagram and he distribution of piomes	hich ar nd be of on.			Coniferous forest Deciduous forest Tropical rainforests Tundra Temperate grasslands Tropical grasslands Hot deserts.
	species at a particular trophic level. Food webs howeve interconnected together.	a network of many food chains	5	Biomes Cl	imate and Plants					
2	The Nutrient Cycle Nutrient Cycle - Plants take in nutrients to build into ne organic matter. Nutrients are taken up when animals ea plants and then returned to the soil when animals die a the body is broken down by decomposers.	at	Infail UTTER Decompositi		Biome Tropical rainforest Savannah	Location Centred along the Equator. Found between the desert and rainforest biome. Mostly near	Temperature Hot all year (25- 30°C) Hot all year (28°C).	Rainfall Very high (over 200mm/year) Clear wet seasons. Rainfall is convectional. 30-50	Flora Tall trees forming a canopy; wide variety of species. Grasslands with some woodland and isolated trees such as Baobab.	Fauna Greatest range of different animal species. Most live in canopy layer Large number of animal species. Well known ones include Lions, Leopards,
	Litter - This is the surface layer of vegetation, which over time breaks down to become humus. Biomass - The total mass of living organisms per unit area.	rer 🚰	Soil Soil Weathering of parent rock		Hot desert Tundra	the equator. Found along the tropics of Cancer and Capricorn. Far Latitudes of 65°	Hot by day (over 30°C) Cold by night	inches annually. Very low (below 300mm/year)	Lack of plants and few species; adapted to drought. Small plants grow close	Cheetahs Many animals are small and nocturnal: except for the camel. Low number of species.
3	3 Case Study - Small Scale Ecosystem in the UK – Fresh Water Pond 3 Fauna (animals) Freshwater ponds provide a habitat for a large number of animals including heron, ducks and fish (e.g. Perch) Flora (plants) Various plants grow in a freshwater pond such as Marsh Marigold and Bulrushes. Soil /pond bottom – At the bottom of the pond there are rotting plants and animals, releasing nutrients for plants/animals to consume. Climate – summers are warm, winters are cool. The sun provides the majority of the energy for the ecosystem.				Introductic Tropical Ra to over hal Interdepen and animal effects for Rainforest dead plant nutrients a close to the Climate of	f of the world's plan adence in the rainfo is depend on each o the entire ecosyster Nutrient Cycle - The material. This provi re in high demand f e surface. If vegetati Tropical Rainforest	opical rainforest co nt and animals. rest - A rainforest ther for survival. If n. hot, damp conditi des plentiful nutrie rom the many fast- ion is removed, the s -	works through inte f one component cl ions on the forest f ents that are easily growing plants, the	ey do not remain in th	where the plants erious knock-up
		ą			close to the Climate of • Evening • Due to • • Most at	e surface. If vegetati	on is removed, the s - ly fall below 22°C. uds, temperatures vy showers.	rarely rise above 3	me infertile .	e soil fo

	Geography	The Liv	ving V	Vorld	CYCLE 1	YEAR 10
Quiz	Key Knowledge to learn		Quiz		Key Knowledge to learn	
7	Tropical Rainforest – distribution and structure Distribution of Tropical Rainforests Tropical rainforests are centred along the Equator between the Rainforests can be found in South America, central Africa and So world's largest rainforest and takes up the majority encompassing countries such as Brazil and Peru. Layers of the Rainforest Emergent - Highest layer with trees reaching 50 metres. Canopy - Most life is found here as It receives 70% of the sunlight at 80% of the life. Under Canopy - Consists of trees that reach 20 metres high. Shrub Layer - Lowest layer with small trees that have adapted to livit Tropical Rainforests – Case Study Malaysia - Malaysia is a LIC country is south-east Asia. 67% of Malaysia is a trop	uth-East Asia. The Amazon is the of northern South America, and ing in the shade .	10	Tropical Rainforests - Case Study Malaysia What are the causes of deforestation? Logging Most widely reported cause of destructi Timber is harvested to create commerci paper. Violent confrontation between indigend companies. Mineral Extraction Precious metals are found in the rainfor Areas mined can experience soil and wa Indigenous people are becoming display being built to transport products. Energy Development The high rainfall creates ideal condition: The bakun Dam in Malaysia is key for create country, however, both people and environment and solve and sol	ial items such as furniture and ous tribes and logging rest. ater contamination. ced from their land due to roads is for hydro-electric power (HEP). Road Building resting energy in this developing resting energy in this developing	n and soil erosion increasing due to the large areas of Im oil is making the soil infertile.
	 being interfered with. However , Malaysia has the fastest rate of definition the world. <u>Adaptations</u> Orangutans - Large arms to swing & support in the tree canopy. Drip Tips - Allows heavy rain to run off leaves easily. Lianas and Vines - Climbs trees to reach sunlight at canopy. <u>Rainforest Inhabitants</u> Many tribes have developed sustainable ways of survival. The rainfo Food through hunting and gathering. Natural medicines from forest plants. Homes and boats from forest wood. 	orestation compared to anywhere	11	Economic Development + Mining, farming and logging ct + Products such as palm oil prov - The loss of biodiversity will rec Soil Erosion Once the land is exposed by det - With no roots to bind soil toge Climate Change When rainforests are cut down, -Trees are carbon 'sinks'. With g -When trees are burnt, they relation	forestation, the soil is more vulnera ether, soil can easily wash away. , the climate becomes drier. greater deforestation comes more g	for government.
9	 Tropical Rainforests - Case Study Malaysia Issues related to biodiversity Why are there high rates of biodiversity? Warm and wet climate encourages a wide range of vegetation to There is rapid recycling of nutrients to speed plant growth. Most of the rainforest is untouched. Main issues with biodiversity decline Keystone species (a species that are important of other species) the rainforest ecosystem. Humans are threatening these vital con Decline in species could cause tribes being unable to survive. 	are extremely important in	12	Uncontrolled and unchecked ex erosion and climate change. Possible strategies include: • Selective logging - Trees are • Education - Ensuring those p • Afforestation - If trees are co • Forest reserves - Areas proto • Ecotourism - tourism that pro-	e only felled when they reach a partic beople understand the consequence ut down, they are replaced. ected from exploitation. romotes the environments & conser	nage such as loss of biodiversity, soil cular height. s of deforestation vation
	 Plants & animals may become extinct. Key medical plants may become extinct. 		13	Create a fact file summarising Quiz will be a summary quiz.	Ecosystems and Tropical Rainforest	s! You may do this as a mind map. Your

History		Migrants to Britain	- Overview	Cycle 1		Year 10
Section A – Medieval Period	Section B – E	arly Modern Period	Section C – The Industrial Peri	iod	Section D	
 Power in Medieval England The land ruled by the King of England in 1250 included, England, part of Ireland and two regions of what is now France: Gascony in the South West and Calais in the north east. By 1283, England also controlled Wales but many Welsh people did not accept English rule During the Hundred Year's War between England and France, control of parts of France changed hands multiple times → People who were considered to be English were now seen as 'aliens' when France took over Scotland was a foreign country. Those not born in lands ruled by the King were classed as aliens During the medieval period people gained some rights such as a Parliament that had an influence over wars and taxation Kings used taxes to collect money for wars and other projects. Religion in Medieval England Most people in England were Christian The Roman Catholic Church was one of the most powerful organisations in the Europe. It was led by the Pope in Rome. Life in Medieval England Most people were farmers who lived in the same villages all of their lives. Some were freemen owning their own land but many were villeins who worked for the wealthy people who owned lots of land. Many mothers died in childbirth, infant mortality was high and in 1348 the Black Death killed up to half the population. This caused lots of jobs to become available. Conflict in the medieval world England was involved in the crusades, a series of wars that were fought to control the lands around Jerusalem. This encouraged hostility against Jews and Muslims Tension between the ruling class and everyday people who had no say in government often led to rebellion 	 The Reform the Catholic – was one o Britain was Catholic Spa By the mid 2 accepting of Changing ide Sailors from colonise the Spanish ford and south A The Portugu them to the Dutch merc English peol set up plant In 1660, the Africa was s trade The East Inc English meri 1600. Changing ide English Civil gave parliar Money and born wealth 	ese enslaved Africans and transported r colonies in Brazil nants dominated trade with Asia. ble in North America and the West Indies ations using slaves. Company of Royal Adventurers Trading to et up → main people involved in the slave ia Company was set up by a group of thants who began trading in Asia after as about wealth and power. war in the 1600s removed the King and hent more power wealth moved away from people who were y rading internationally in good such as	 The British Empire By 1900 Britain controlled 1/3 its Empire India was on Britain's key color increased migration Britain's wealth was based on empire in the Americas, Africa of cheap raw materials and cheer and the analysis of the solution of the analysis of the solution of the s	nies which led to trade and its growing and Asia was a source eap labour were drafted into the nd West Indian Men nt ships. onditions was key to ters and entrepreneurs. and influence groutes, railways and ers of workers. Pushed hance to work in eft the countryside. s into trade unions and ds for voting rights, conditions were often form d became more the slave trade. Abolition Act which British Empire. itish army, white lependence → This led was overthrown in the to lots of war between	 In 1900 Br world had and access Through tr food, equi colonies. War and t weakened By the end its empire superpow Countries gained ind 1960s. United Euro World Wa destructio movemen Nationalis during Wc After Wor created th together. The EU wa century th The free n Europeans In 2016, th divided Euro 2003 the U created m Conflicts a Afghanista effects of asylum set 	d of the 1900s Britain had lost most of along with its status as a world er. in Asia, Africa and the Caribbean lependence in the 1940s, 1950s and ope r 1 and World War 2 caused vast n and loss of life, as well as mass t of refugees. t feelings were strong before and orld War One. Id War One, European countries the League of Nations to work as created in 1993. By the early 21 st the EU had expanded to 28 countries novement of workers meant that s could travel easily across borders. the UK voted to leave the EU → led to irrope. y Tensions JK supported a US invasion of Iraq – ore tension in the Middle East is well as continuing crises in an, Pakistan and Eritrea and the climate change have caused a rise in

History		Medieval Migratio	on 1250-150	0	Cycle	1	Year 10
Section E - Attitudes towards migrants	Section F - The diversity	y of migrant communities	Section G – The	Impact of migrant	s	Section H -	lewish experiences
The authorities Official reception of immigrants varied considerably. It depended on several factors: • how strong the king was • whether the country was at war • the state of the economy • whether the king wanted to collect taxes Although most Medieval immigrants seem to have settled peacefully and become part of their communities, at times of crisis they could be vulnerable and at risk of violent attacks. • In the 1330s, King Edward III gave strong protection to Flemish weavers. • After the Black Death immigrants were welcomed to fill the gap and there were foreign-born workers in most towns and villages. • In 1354 a law gave aliens who appeared in court the right to be tried by a half-alien jury. • After 1370, letters of denization gave migrants the same rights and protection as English citizens. The Wider Population In times of war, 'enemy aliens' could have their goods confiscated or be deported. Flemish merchants, French migrants and Irish immigrants were all expelled from England at different times. Many people resented foreign merchants and bankers because they believed they had come only to make money for themselves.	 in England was foreign-b six. Artisans and craftspeop Many migrants came to Many came as refugee sea journey to England peaceful, and wages w Many, especially weave kings such as Henry III to pass on weaving skil Craftspeople came fror fill a wide variety of occ goldsmiths and bakers. They were joined by pr Christian faith. Bankers and merchants From the 1220s, wealth to set up in London, ler Edward I who used it fo Wales. The king gave these ba 1303, allowing them to reduced tax rates. Wealthy immigrants Some foreigners who co nobility and royalty. They included foreign r arriving under Crown p When foreign princesso brought many relatives them. Servants and labourers The largest group by fa as servants and labourd Many of these were fr 	to England from the Low Countries. es from war as it was only a short d, where conditions were more vere better. vers, were encouraged to come by and Edward III who wanted them ills to English craftspeople. Im Ireland, Scotland and France to coupations; from saddlemakers to 5. riests who travelled to spread the sthy Italian banking families began ending money to kings such as King for wars and castle building in ankers and merchants a Charter in o trade in wool and other goods at came to settle were from the nobles, some of them refugees, protection. ses arrived to marry kings, they is and attendants who settled with ar, were those who came to work	 helped move the on raw material This brought new woollen textiles Bankers Italian money fu Wales, The very first state to King Edward I Hundred Years' Merchants The bases set up in woollen cloth Trade with cities 	ich craftspeople bro e economy from a p s to a secondary ma w wealth to England inded King Edward I age of English empir III helped fund Engli War. o by Hanseatic merco as a major good. s around the North ring money to the C	orimary one based anufacturing one. d based on I's campaign in re building. Loans ish forces in the chants with trade and Baltic Seas	 Jewish settlinivited by W Catholic tear money with Jewish peop sometimes Many Jews within the c doctors to f They were a a "Charter c meant they castles if the They also have a some the some some the some prisest Jesus. Many ordination of the some some some some some some some som	ble were therefore encouraged, forced, to be moneylenders. filled a whole range of occupations iommunities where they lived, from ishmongers. allowed to mix freely and were given of Liberties'' by King Henry I which could go to the safety of the King's ey were in danger. ad to pay higher taxes than everyone of protection from the Crown. of Jewish immigrants for Jews in England got steadily worse and 13th centuries. c attacks increased in frequency and es were a time of rising antagonism aiths that were not Catholic and ews grew is who blamed Jews for the death of ary people did not like the protection ceived and connected them with were ready to turn on them. thy, borrowing from Italian bankers, ess and less on money from rich Jews red them less protection, eventually

	RE	Christia	an Prac	tices	Cycle 1	Year 10	
Week	Key Knowledge to learn		Week		Key Knowledge to learn		
1 - Worship	 Liturgical worship: set words and actions for worship, based on the Bible. Informal worship: worship that is less formal and more relaxed; may be in The bible is at the heart of ALL forms of Christian worship. Private worship: an individual or family worshipping at home or in a private that private worship is the most important as we should never worship jus Charismatic worship involves singing and people speaking from the heart we do so (typical in some Evangelical churches). Some prefer liturgical worship as it is a familiar ritual that makes them feel community saying the same thing at the same time and reminds them of the is the same in all churches that use it. Others prefer informal or private worship as it enables them to directly expt than going through ministers who may have different or misleading underst in with if you are new to that particular church. All forms of worship use th readings, hymns or prayers). 	e place away from others (Jesus taught t to look devout.) when the spirit of God moves them to like part of a bigger Christian. he never changing nature of God, as it perience God for themselves, rather standing of God; it is also easier to join	4 Sacrament- Eucharist	 The Last Supper was the final meta. At the last supper Jesus blessed It helps Christians remember an spilled to save them from death <u>Scripture says: "Take, eat, this is</u> <u>The</u> Some churches eg Catholic use v Others eg Methodists use non-a encourage people to use it. Catholics believe in transubstant blessed by the priest. Catholics call the Eucharist "Holy 	d reflect on Jesus's sacrifice for them on the cr and the consequences of sin. my body. Take, drink, this is my blood. Do th wine at the Eucharist as Jesus used it at the Las Icoholic juice as they believe alcohol can cause tiation – the bread and wine really become Ch	ross – his body was broken and his blood is in remembrance of me." (Bible) it Supper. e problems and they don't want to rist's body and blood when they are	
2 – Prayer	 <u>The Lord's Prayer</u>: teaches Christians that God is "<u>our Father</u>" and what he Jesus taught his disciples this prayer in the Bible so it is his exact words. Set prayers: prayers with fixed words that never change (eg <u>the Lord's Pray</u> Informal prayer: prayers made up by the person praying. Arrow prayers: very quick prayers sent up quickly to God in a moment eg "I Jesus taught Christians should pray in private "<u>When you pray, go into your</u> Some prefer set prayers as they are sure they are praying in the way the Bil they trust them to have a greater understanding of God than the individual Others prefer informal prayers that they make up themselves because the believers to have direct communication with God, which gives them their misleading impressions others may give them. Prayer is an important part of Christian worship which helps them deve understand God through direct communication with Him. 	er and <u>the Jesus Prayer</u>). Help me God" or "Let him live". <u>room and close the door."</u> Dle and the Church want them to, and believer. y may fit the situation better and allow own understanding of Him and avoids	5 – Pilgrimage	 It often involves visiting a place w Christians believe the Virgin Mar that should build a chapel so tha Other pilgrimage sites are dedica values eg Iona. Iona is a Scottish Island which pil important monasteries in Britain Pilgrimage can also be about visi Christians call this place the Holy Some say it is important because Others say it is not commanded it 	ated to quiet reflection and spend some time li Igrims have visited since the 7th Century. It wa	illage of Lourdes in 1844 and that she said wing in a community based on Christian s the home of one of the first and most at they can get closer to Jesus the man. lerusalem d focus fully on understanding God.	
3 Sacrament- Baptism	 Jesus was baptised by John the Baptist in the River Jordan. At the moment of his Baptism all three parts of the trinity were present. Jee Father and the Holy Spirit descending as a dove. In the bible, Jesus taught "None can enter the Kingdom of God unless they Water is poured over the head, or the person is fully immersed in water, traway. Baptism cleanses sin and welcomes a new believer into the Christian Chur White clothes are often worn to symbolise purity. Some believe infant baptism is not necessary as a just God would not send infant baptism is pointless as the child is too young to commit to being a d mentions adults being baptised. Others say Jesus clearly taught that all must be baptised as soon as possib to enter heaven very young (see Scripture on the left). It is also a good way to mark the birth of a baby and welcome them into the Parents make promises to bring their children up as good Christians. It is the first sacrament of initiation. The words said are "I baptise you in the name of the Father and of the Sord 	are born again of water and spirit." o symbolise their sins being washed ch family and community. I a baby to hell for not being baptised; isciple of Jesus; the Bible only le after birth in case they die and need he Christian church community.	6 - Celebration	 Christmas is a time to spend wi Christmas is a time to remembe Christmas can include the follow donations; spending time with f The season before Christmas is Easter remembers' Jesus sufferi Easter recalls the act of reconcil The 40 days before Eater are kn Easter week starts with Palm Su Maundy Thursday celebrates th Good Friday is the day the Jesus Easter Sunday celebrates the Re Easter: Easter vigil, going to chu resurrection Many see Easter as more signifi 	s crucifixion is remembered	gifts; ind grew up in poverty. cards and presents; carols; charity eless on or around Christmas Day stmas death represented and enabled to happen hristians prepare through fast and prayer. lem lle; reflecting on Jesus's death and ection that showed he was the Son of God	

	RE Christian Pra		istian Practices	Cycle 1	Year 10	
Week	Key Knowledge to learn		Week		Key Knowledge to learn	
7 – The role of the Church in the local community	 Food banks help those who are in poverty by giving parcels containing last three days Street pastors help those who are vulnerable to crime and alcohol at city centres Scripture: Both show Christians performing the duty to "Love they needy as taught in the Parables of the Sheep and Goats and the of the Parable of the Sheep and Goats and the of In the Parable of the Sheep and Goats suggests Some say doing your Christian duty through actions in the communit important than showing faith through worship in church; others feel prayer are more important because they are direct contact with God reflections of faith. 	ouse late at night in <u>eighbour</u> " and help <u>Good Samaritan</u> y is more worship and	10 – The Worldwide Church Responding to persecution	 Jesus taught that we should love our enemies a St Peter wrote to Christians who were persecut more fit for eternal life with God; they were sha Christians will attempt to fight persecution and CASE STUDY: Open Doors is an organisation that Christians who are taken to court for blasphem awareness in Christian countries of the risks otl They work and pray for peace, justice and an en- 	ted that they should see persecution as a aring in Jesus' sufferings and should trust help those who are preventing from wor at helps persecuted Christians worldwide y in countries where Christianity is not th her Christians face of persecution so they nd to persecution worldwide	form of purification to make them God to help them in their time of need. rshipping openly today by providing lawyers to help e main religion, and by raising r can pray for them or donate money
8 – A growing Church	 Mission" means sending – the idea that Christians have been sent to by God, eg help the poor or victims of crime "Evangelism" means spreading the Gospels, usually with the aim of c to Christianity CASE STUDY: The Church Army's Sorted Project in Bradford is an exar evangelism in our local community Scripture: "Go, and make disciples of all nations, baptising themand obey all that I have taught you." Missionary work happens in the UK and overseas, particularly in deve to grow the church and spread the teachings of Jesus. Serving in Miss UK and West Africa: they support Christians to go and work in educat in overseas and preach to those whom they have helped, if they wish Evangelical churches are growing in the UK; they plant new churches message and worship him. Their structure is different to traditional of cells which meet in people's homes as well as wider congregations ar across a number of churches. Church Planting = opening new churcher Vinevard Project 	onverting people nple of mission and <u>I teaching them to</u> cloping countries, sion works in the ion and medicine to hear it. to spread Jesus' lenominations with ad celebrations	Christian Aid 11– Christian responses to Overseas poverty	 Jesus taught in the Parable of the Sheep and GC The Golden Rule "treat others as you wish to b want them to do the same to us – including pow Christians respond to poverty by donating to fc Goats. The Parable of the Sheep and Goats is in Matthh The Parable of the Sheep and Goats is in Matthh The Parable says that "But when the Son of M throne of his glory. Before him all the nations separates the sheep from the goats." The sheep represent those that have followed C They therefore may respond by giving mone Christian Aid raise money by going door to door Christian Aid was set up in 1945. It was first set up by British and Irish Churchess Emergency aid helps in natural disasters with f rescue workers to disaster zones 	e treated" suggests we should help peop rerty bod banks or volunteering to help them t ew 25 fan comes in his glory, and all the holy will be gathered, and he will separate Christian teaching and the goats are those y to charities that help the poor world in their fundraising campaign in May even to help refugees. food and bottled water, shelter and medi	ble in difficult situations, since we would because of the Parable of the Sheep and angels with him, then he will sit on the them one from another, as a shepherd that have not followed teaching. Iwide such as Christian Aid, or helping ery year
9 - The Worldwide Church Working for reconciliation	 Jesus' death was an act of reconciliation between humans and God Christians believe that reconciliation with former enemies is extrem 	they must try to Jesus reconciled you" ciled with ey work with b each other to	 especially if orphaned Long term development aid is essential to deal with the cause of poverty such as unfair debt owed by in LICs: it involves setting up schools, digging wells and training health and medical workers. Christian Aid campaign so that the government helps those in need in the UK and worldwide more to benefits and poverty charities like Oxfam, and letting LICs off debt Increasing public awareness eg getting celebrities to speak out against poverty in the media programmes in schools Fundraising: raising money to help those in poverty and emergency situations plus longer term poverty for the future. They knock on doors and hold a fundraising campaign in May every year to do this. They encourage Christians to give their time ands act as volunteers, becoming Christian aid specifies and poverty for the future. 			

Performing Arts - MUSIC	Roles and Responsibilities	CYCLE 1	Year 10	
Box A – Types of contract/employment	Box B – Job roles within the music industry	Box C – Common health and safety points		
Fixed term contract – Work for a specific length of time Permanent contract – Work with no end date in sight Temporary – Similar to fixed term, often seasonal work Self-employed/Freelance – Working for yourself, need to invoice & organise taxes yourself Volunteer – Working for no money in exchange for experience	 Musician – Plays music for themselves or other artists, either live or in the studio Producer/songwriter – Writes/helps record music for artist, often to a given brief Musical Director – Is in charge of all music played live by musician Live sound technician – Is the person in charge of all technical aspects of a live performance (anything you hear) Roadie – Helps to bring all equipment in and get set up for live performances Instrumental support – Guitar/drum technician who will ensure instruments are ready for live performances 	 Tripping hazards Fire exits Security Toilets Spilled liquids Disabled access Smoking rules Lighting First aid Overcrowding Staging 		
Box D – Recording roles	I BOX F - Service companies/organisations I		gencies/ Departments within ompanies	
Recording engineer – will 'capture' the sound, works with all equipment Technical manager – Oversees all equipment and ensures everything is fit for purpose Producer – Helps guide the artist to create their music Session Musician – Performs given music for an artist/producer Mastering engineer – Ensures the final mix is right for all sound systems	Stylist – Decides the artist's 'look' Manager – Organises everything for an artist Hire company – Can hire any equipment from this company Transport company – Will be paid to move equipment/musicians from one place to another	 PRS – Collects royalties when an artist's music is performed live MCPS – Collects royalties when an artist's music is recreated mechanically (like a CD or DVD) PPL – Collects royalties when an artist's recording is played in a public space Legal – Protects the artist from legal issues Artists & Repertoire (A&R) – finds/develops an artist to become a product Marketing – Organises a marketing strategy to sell a product Art – Creates artwork and promotional material Promotion – Promotes artists to venues to ensure live performances are being held 		

Enterprise	Component 2	CYCLE 1	YEAR 10
BOX 1: Learning aim A: Explore ideas and plan The impact of internal factors on costs: markets and c <u>Key Words</u> : Micro Enterprise, Ideas, Planning, Pitchin	stomer satisfaction. Internal Factors – Factors inside the business wh	ch they can control.	
Explore ideas and plan for a micro-enterprise activity. Learning aim A: Explore ideas and plan for a micro-enterprise activity. Evidence for the assignment/to know: Learners will individually research three potential ideas for a micro-enterprise activity and prepare a business plan for one of these ideas. Level 2 learners will develop a comprehensive plan for their micro-enterprise idea. It will need to be based on the research concepts from Component 1 and learners will show how they considered relevant factors when choosing their activity to plan. Financial forecasts will be realistic for the type of enterprise activity and timescales.	 For Level 2 Distinction: Learners will produce a comprehensive plant Explanation of the aim of the enterprise activity An estimate of the resources required, both physical and financial, obtained/funded An appropriate timescale for the activity, from initial plan through Methods of promotion, giving reasons why they are appropriate A risk assessment and contingency plan to overcome any issues ide Learners will give detailed and valid reasons for the choices made. which must be realistic and achievable for the type of enterprise a For Level 2 Merit: Learners will produce a detailed plan that gives mode. The aim of the enterprise activity An estimate of the physical and financial resources required and he An appropriate timescale for the activity, from initial plan through Appropriate timescale for the activity, from initial plan through An estimate of the physical and financial resources required and he appropriate timescale for the activity, from initial plan through An appropriate timescale for the activity and financial resources required and he appropriate timescale for the activity and plan through Appropriate methods of promotion A risk assessment and identification of ways to minimise any issue structured and learners will give valid reasons to support their dec financial documents The forecasts must be realistic and achievable 	and a discussion on how these resour to completion of trading entified and ensure quality of the prod Learners will produce complete and a ctivity. stly relevant information, including: bw these resources are to be obtained to completion of trading s and ensure quality of the product/se sions. In addition, learners at this leve for the type of enterprise activity.	rces are to be duct/service. ccurate financial documents, l/funded rvice. The plan will be logically el will produce complete
	 For Level 2 Pass: Learners will clearly describe their three potential id market research of each idea. They will give reasons for their choice of resources, financial forecasts, costing and pricing, methods of commu produce a plan that gives a clear account of most relevant informatio The aim of the enterprise activity Physical and financial resources (any omissions are minor) Appropriate methods of promotion Timescales for most aspects of the plan A risk assessment with recommendations for how to minimise risk 	of activity, showing how they consider inication and promotion, and potentian, including:	ed relevant factors, including al customers. Learners will

Enterprise	Component 2	CYCLE 1	YEAR 10
earning aim B: Pitch a micro-enterprise activity.			
Pitch a micro-enterprise activity Learners must demonstrate presentation and con presentation for the plan and pitch it to an audier appropriate presentation and communication skil	nce. The plan will be supported by detailed r		
 Presentation skills: Professional behaviour and content Positive attitude Well-rehearsed and prepared Considerate of the needs and interests of the automatic of visual aids, e.g. computer projection/slide clarity and legibility of text, impact of graphics 	udience leshow with speaker notes, handouts for au	idience,	
 Communication skills: Body language, gestures and eye contact o lang Use of business terminology Listening, handling questions and formulating a 		n	

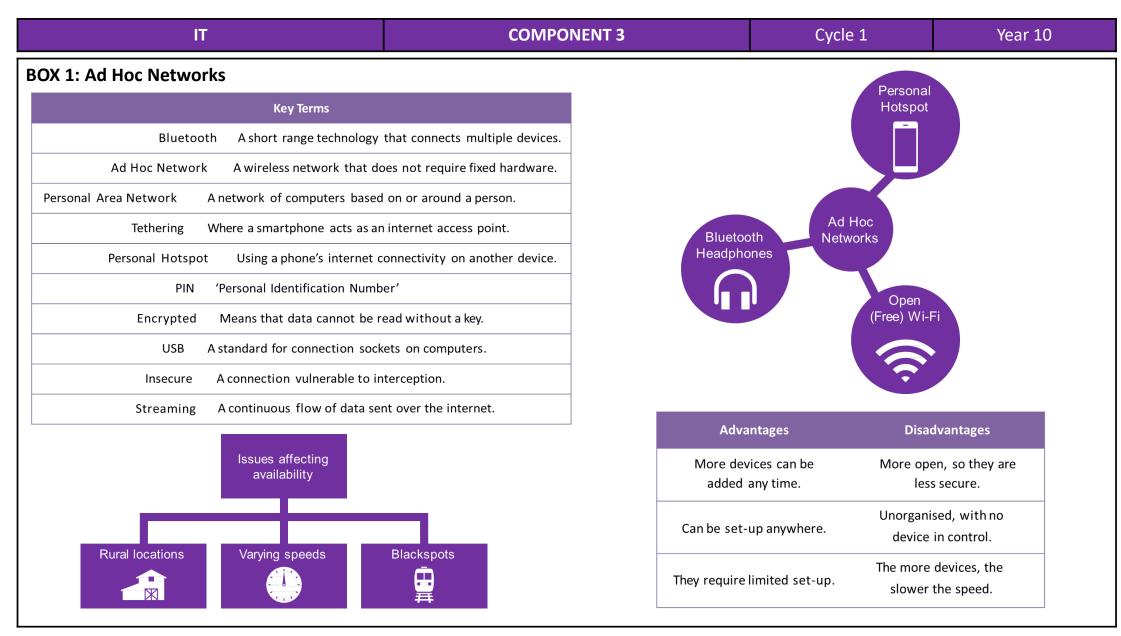
Health & Social Care

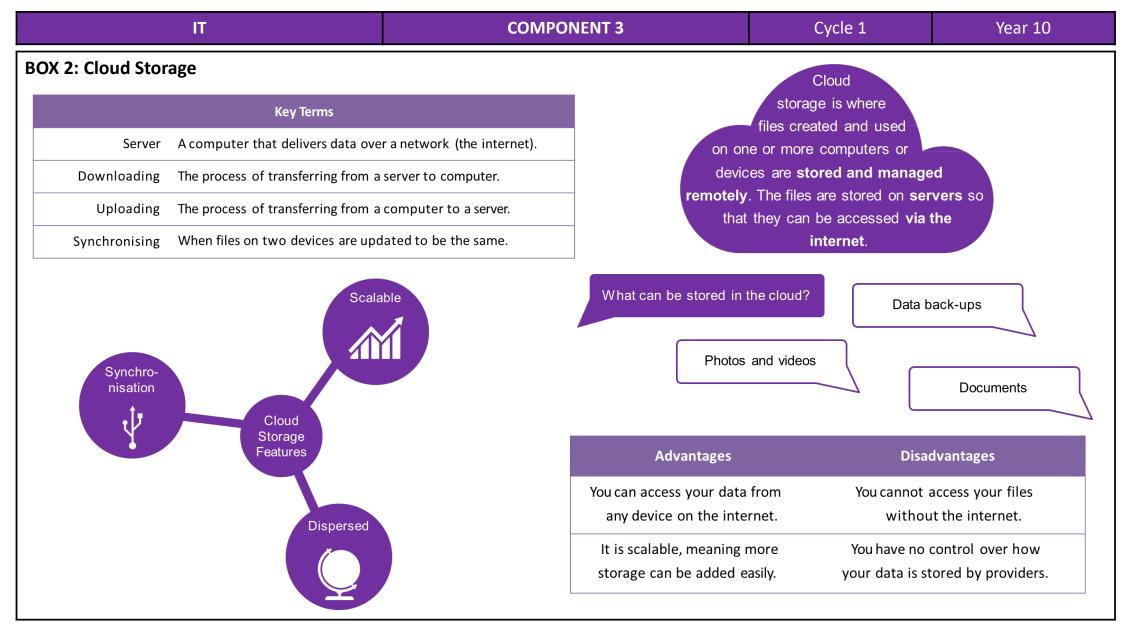
BOX 1: Learning Aim A: Understand the different types of health and social care services and barriers to accessing them. <u>A1 Health and social care</u>	Providing good health and social care services is very important and a set of 'care values' exist to ensure this happens. Care values are important because they enable people who use health and social care services to get the care they need and to be protected from different sorts of harm. A1 Health and social care services Different health care services and how they meet service user needs • Primary care, e.g. dental care, optometry, community health care • Secondary & tertiary care, e.g. specialist medical care • Allied health professionals, e.g. physiotherapy, occupational therapy, speech and language therapy, dieticians Different social care services and how they meet service user needs • Services for children and young people, e.g. foster care, residential care, youth work • Services for children with specific needs (learning disabilities, sensory impairments, long-term health issues) e.g. residential care, respite care, domiciliary care • Services for older adults, e.g. residential care, domiciliary care
services BOX 2: A2 Barriers to accessing services	 <u>Role of informal social care provided by relatives</u>, friends and neighbours <u>A2 Barriers to accessing services</u> Types of barriers and how they can be overcome by the service providers and users <u>Physical barriers</u>, e.g. issues getting into and around the facilities <u>Sensory barriers</u>, e.g. hearing and visual difficulties <u>Social, cultural and psychological barriers</u>, e.g. lack of awareness, differing cultural beliefs, social stigma, fear of loss of independence <u>Language barriers</u>, e.g. differing first language, language impairments <u>Geographical barriers</u>, e.g. differing or transport links <u>Intellectual barriers</u>, e.g. earning difficulties <u>Resource barriers for service provider</u>, e.g. staff shortages, lack of local funding, high local demand <u>Financial barriers</u>, e.g. charging for services, cost of transport, loss of income while accessing services

ŀ	lealth & Social Care	Component 2 Human Lifespan Development	CYCLE 1	YEAR 10
BOX 3: B1 Care Values	 <u>Respect</u> for the individual by respecting Maintaining <u>confidentiality</u> Preserving the <u>dignity</u> of individuals to h <u>Effective communication</u> that displays e <u>Safeguarding</u> and <u>duty of care</u> 	nelp them maintain privacy and self-respect	inatory behaviour	
BOX 4: <u>B2 Reviewing</u> <u>own application</u> <u>of care values</u>	 <u>B2</u> <u>Reviewing own application of care value</u> Key aspects of a review Identifying own strengths and areas for Receiving feedback from teacher or serv Responding to feedback and identifying 	improvement against the care values vice user about own performance		

Travel and Tourism	Component 1	CYCLE 1	Year 10
BOX 1: Learning Aim A: Investigate the aims of UK tra Key Words: Private, Public, Voluntary, Destination rou	-		
	tes, customer rypes, racinties, pront, non-ior pront.		
<u>Travel and Tourism organisations</u> Tour operators - Assemble and operate component parts for holi Travel agents (Business and Retail) - Give advice and guidance; ar Accommodation providers - Provide a range of facilities, options Tourist attractions - Provide recreation, entertainment, education Tourism promotion - Tourism agencies, regional tourist boards, to Transport facilities and providers, gateways and terminals - Provi Conference and events management - To book/provide venue an Regulators - Regulate the industry and protect customers, give cu Travel and tourism trade associations - ABTA – represent travel a	range and book trips; excursions, flights and package holidays fo and services. n and tourist facilities. ourist information centres – provide information and advice. de safe transport from one destination to another, can include a nd services such as administration, promotion, equipment hire fo ustomers advice and support, representation, repatriation, licens	dditional services such as catering, enter r a conference or event.	ertainment.
<u>Ownership of travel and tourism organisations</u> Private - Owned or controlled by private individuals or sharehold ownership. Public - Funded and sometimes owned by central and local gover Voluntary - Independent organisations funded by membership do	ers e.g. travel agencies, accommodation providers; common own	es, museums.	agents under the same
<u>Aims of travel and tourism organisations</u> Financial aims - Selling of goods and services to make a profit. Increasing sales and maximising revenue Increasing market share Reducing losses Controlling costs		vs	A
Breaking even Managing assets Strategic aims - Corporate social responsibility, sustainability, e.g Expanding Diversifying Competing	. managing tourism to protect the environment, to contribute to	the local community	RANE JASA KEECE TALSON BADIA CROPT TALY NDDIA NDDIA
Providing high-quality services and products Providing value for money Generating customer loyalty Raising brand awareness			

Travel and Tourism	Component 1	CYCLE 1	Year 10
BOX 2: Learning Aim B: Explore travel and tourism and Key Words: Coastal areas, seaside resorts, countryside		e, all-inclusive, independent/t	ailor made.
<u>Types of tourism</u> Visitor - Someone making a visit to a main destination outside of the Tourist - Someone travelling for leisure. Domestic - Taking holidays and trips in own country. Outbound - Travelling to a different country for a visit or holiday Inbound - Visitors from overseas coming into the country.	neir usual environment and for less than a year for any main pur	pose, including holidays, leisure, busir	ness, health and education.
<u>Tourist destinations</u> Types of destination - Coastal areas, including seaside resorts Types of visitor - Individuals, couples, families, groups, domestic vi Features of destinations - Geographical features and natural attractislands. Visitor attractions; e.g.: purpose built, natural, theme and water prentertainment such as sports stadiums/events, theatres, art galler Facilities - Sports facilities, shopping including local, outlets, market Climate, how climate/weather can lead to peak/off seasons at a de how climatic conditions/seasonal variations affect the appeal of a	tions; e.g.: Oceans, seas, rivers, canals, lakes, mountains, hills, warks, historical sites such as castles, stately homes, walls, ruins, wes, museums, festivals, exhibitions, local events. ts, catering, including restaurants, cafes, bars, activity and adversestination, how the climate and weather of a destination could a	voodland, parks, nature reserves, cave vildlife, and nature such as marine wo nture centres.	es, waterfalls, coastal areas, Irld, zoo, safari park, arts and
<u>Reasons for travel</u> Leisure travel - Days trips, holidays, visiting friends and relatives (V Business travel - Meetings and conferences. Modes of transport - Modes of transport – the advantages and dis Air (including short haul, long haul, domestic, outbound Rail (including channel tunnel) Sea (including ferries, boats and ships) Road, (including coach, car, taxi) Making links between choice of transport, types of visitor and thei	advantages of the following types of transport, and why visitors	may choose one form of transport ov	er a
<u>Types of holiday</u> Package - This includes all-inclusive such as summer sun, winter su Independent/Tailor made - Sold by a sole trader or partnership bu Short – breaks - City breaks, spa breaks, activity breaks. Touring - conservation, holiday parks.	iness. These can be tailored to the customer.	ducational, wellbeing, adventure, eco	-holidays, voluntary work,





	Sport Science	R180 – Reducing the risk of injury	CYCLE 2	Year
Вох	Extrinsic and intrinsic factors which influence the risk of injury	· · · · · · · · · · · · · · · · · · ·		
Α	Extrinsic factors that can increase the chance of injury are factors that you cannot control. These are outside of a player's control.	Examples of extrinsic factors are: environment; equipment; coaching/instructing/leading; types of sports.	Coaching can cause injury by a p technique, for example, being ta rugby.	
	Protective Equipment can help reduce injury by players having the correct protective equipment for example shin pads, gum shields and helmets if required. Lack of these can contribute to injuries	Intrinsic factors are things that a player can control and these can then reduce the chance of injury to the player.	Examples of intrinsic factors are: warming up correctly and wearir	wearing protective equipment, g the correct clothing/ footwear.
	Individual variables are what makes a person unique and impact the sport they can participate or make the susceptible to injuries.	Examples of individual variables are: Gender; age; ;experience; weight; fitness levels; techniques/abilities; nutrition/hydration; medical condition; sleep; previous injuries.	If a participant has an injury, suc it has healed will cause more dar technique/performance. It will ca	
Вох	Psychological factors which increase the risk of injury			
В	There are four psychological factors that impact on an athletes performance: Motivation, Aggression (Direct and Channelled, Arousal and Anxiety.	Arousal is a player's level of excitement and readiness to perform.	m. There are three mental strategies that can support a p Mental Rehearsal; imagery; selective attention.	
	Direct aggression is any form of behaviour that directed towards the goal of harming another player or person such as a two footed tackle in football.	Channelled aggression such as a boxer can assist with a successful outcome for a boxer. It can also be channelled to support a performance to win.	Reasons for aggression can be: L pressures to win; officials decision	evel of performance; retaliation; ns; performance enhancing drugs.
	Over arousal is when a player feels over 'psyched' up for a game. This can be harmful to a player's performance and technique at performing skills in a game.	Under arousal is the opposite where a player feels 'sluggish' or 'lazy' – this can lead to a player not fully preparing and this can lead to injury.	Anxiety is the feeling of being ne performance. This can lead to po is not fully focussed.	rvous or worrying about a or performance or injury as a player
Box C	Warm up and Cool Down			
	Warming up and cooling down routines can help prevent injuries to players.	Four phases of a warm up are: pulse raiser, mobility, dynamic movement, and skill rehearsal. This is the same regardless of the sport you are playing.	Pulse raiser: exercises that slowly temperature of a player. Exampl skipping cycling.	y increase the heart rate and body es of a pulse raiser are: jogging,
	Mobility: exercises that take the joint through the full range of movement. Examples of dynamic movements are arm swings and hip circles.	Dynamic movements: this is changing of speed and direction. For example, sprinting towards a cone and changing direction then sprinting to another. Dynamic examples – walking lunges, high knees.	The use of suitable components warm up routines and exercises/ muscles/joints in the body.	and examples, in the design of the stretches that target different
	Skill rehearsal: This is rehearsing common skills and movements that will be used in a game situation or the activity. For example passing in football, dribbling in basketball or shooting in netball.	Physical benefits of a warm up include: increased body temperature, increased blood flow, increased flexibility of muscle, increase in pliability of ligaments, s and increased range of movement in joints.	Psychological benefits of a warm settles nerves, improves concent gets players in the 'zone' throug	ration, increases confidence and

Вох	Warm up and Cool Down						
A	There are two phases of a cool down. These are the same regardless of what sport you are playing. These phases are: Pulse lowering and stretching		Pulse lowering: exercises that gradually lower a player's pulse and reduce the body temperature. For example light jogging and reducing the speed to a walk.		Stretching: in a cool down a player should only do static stretches and this helps reduce muscles stiffness.		
	There are many things that need to be co warm up or cool down: gender, medical c disability, age, experience and individual	onditions, size of group,	Disability: whether you have people with disabilities in the group. If you have what are they? How can they be catered for?		Size of group: the size of the group important to know. Is the space too big or small? Do you have enough equipment?		
	Experience of participants: are the partici Professionals? – Activities must be challer		Medical conditions: do any of the participants have medical conditions? If so do they have the adequate medication with th for example an inhaler for asthma.			Common medical conditions include Asthma, Epilepsy and Diabetes.	
Вох	Types, causes and treatments of common sports injuries						
В	Acute injuries are injuries that happen be strain or sprain.	nmediate pain. For example, a fracture, a	Chronic injuries are injuries that happen over a long period of time that causes pain. They are also known as overuse injuries.				
	A sprain is when a ligament has been stretched twisted or torn. Symptoms of a sprain are; swelling, pain and bruising. Treat with R.I.C.E.	A strain is when muscles ha torn or stretched. Symptor are; swelling, pain, loss of r and bruising. Treat with R.	ns of a strain novement	Concussion is a sudden trauma to the head that causes a short loss of mental functions. It can also cause unconsciousness.	Examples of chronic injuries are shin		Treatments for chronic injuries include
	ppen, closed and stress are different vpes of fractures. Contusions (bruises) and blisters are examples of acute injuries.			A treatment for a soft tissue injury is R.I.C.E. Rest, Ice, Compression, Elevation	splints, golfers elbow and tennis elbow.		rest, ice and R.I.C.E.