## 2024/25 Cycle 2 Knowledge Navigator

# Year 10

Name:

Form:

### **Morning Meeting Homework**

Purpose: to memorise and recall key facts from previous learning

## 100% Sheets

Purpose: to memorise and recall key facts for current learning

## **RCWC** repeat!

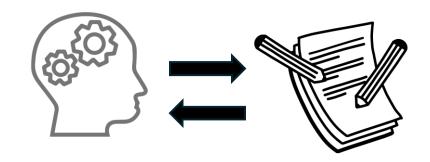
Read the information and try to memorise it.

Cover up the information so you can't see it.

Write down as much as you can remember.

**Check** what you've written down against the information, and green pen what you've missed.

**Repeat** this to fill a minimum of 1 A4 side. The more you repeat this process, the more facts you will remember for your exams!



# Contents

1	Homework Schedule					
Morning Meeting Homework						
2	French					
4	Science					
6	History					
8	Geography					
11	English					
13	RE					

#### **100% Sheets**

15 | Maths

Homework Schedule

	Week 1		Week 2		Week 3		Week 4		Week 5	
Monday	9/12/24	French	16/12/24	French	06/01/25	French	13/01/25	French	20/01/25	French
Tuesday	10/12/24	Science B4 Box 1 & 2	17/12/24	Science B4 Box 3, 4 & 5	07/01/25	Science B4 Box 6 & 7	14/01/25	Science P2 Box 1 & 2	21/01/25	Science P2 Box 3 & 4
Wednesday	11/12/24	RE	18/12/24	RE	08/01/25	RE	15/01/25	RE	22/01/25	RE
Thursday	12/12/24	English Box A <i>Sparx Maths</i>	19/12/24	English Box B Sparx Maths	09/01/25	English Box C <i>Sparx Maths</i>	16/01/25	English Box D <i>Sparx Maths</i>	23/01/25	English Box E <i>Sparx Maths</i>
Friday	13/12/24		20/12/24	Geography 1 & 2 / History A	10/01/25	Geography 3 / History B	17/01/25	Geography 4 / History C	24/01/25	Geography 5 / History D
		Week 6		Week 7		Week 8		Week 9	Week 10	
Monday	27/01/25	French	03/02/25	French	10/02/25	French	24/02/25	French	03/03/25	French
Tuesday	28/01/25	Science B4 Box 1&2	04/02/25	Science B4 Box 3,4 & 5	11/02/25	Science B4 Box 6 & 7	25/02/25	Science P2 Box 1 & 2	04/03/25	Science P2 Box 3 & 4
Wednesday	29/01/25	RE	05/02/25	RE	12/02/25	RE	26/02/25	RE	05/03/25	RE
Thursday	30/01/25	English Box F <i>Sparx Ma</i> ths	06/02/25	English Box G <i>Sparx Ma</i> ths	13/02/25	English Box H <i>Sparx Ma</i> ths	27/02/25	English Box A <i>Sparx Ma</i> ths	06/03/25	
Friday	31/01/25	Geography 6 / History E	07/02/25	Geography 7 / History F	14/02/25		28/02/25	Geography 8 / History G	07/03/25	
	v	Veek 11	۱ N	Week 12	۱ ۱	Week 13				
Monday	10/03/25	French	17/03/25	French	24/03/25	French				
Tuesday	11/03/25	Science B4 Box 1 & 2	18/03/25	Science B4 Box 6 & 7	25/03/25	Science P2 Box 3 & 4	DIXONS			
Wednesday	12/03/25	RE	19/03/25	RE	26/03/25	RE				GLEY
Thursday	13/03/25	English Box B <i>Sparx Maths</i>	20/03/25	English Box C Sparx Maths	27/03/25	English Box D <i>Sparx Ma</i> ths		ACA	ADEN	ЛҮ
Friday	14/03/25	Geography 9 / History H	21/03/25	Geography 10 / History A	28/03/25	Geography 11 / History B				

2	French	Travel and Tourism				LE 2	Year 10	
	Wee	ek 1		Week 2		Week 3		
	Countrie	s/Places		Wea	ather	Forms of Travel		
aux États-Unis	in/to the USA	marocain	Moroccan	le météo	the weather forecast	en avion	by plane	
au Maroc	in/to Morrocco	belge	Belgian	il fait beau	it's nice	en train	bytrain	
en Suisse	in /to Switzerland	chinois	Chinese	il y fait du soleil	it's sunny	en autobus	by bus	
en Espagne	in/to Spain	francophone	French speaking	il fait chaud	it is hot	en car	by coach	
en Angleterre	in/to England	québécois	From Québec (Canada)	il fait froid	it is cold	en voiture	by car	
au Pays de Galles	in/to Wales	suisse	Switzerland	il pleut	it's raining	en bateau	by boat	
en Tunisie	in/to Tunisia	arabe	Arabic	il neige	it's snowing	en TGV	by high speed train	
en Belgique	in/to Belgium	africain	African	il fait du vent	it's windy	à pied	on foot	
en Écosse	in/to Scotland	mondial	global	la pluie / la neige	rain / snow	à vélo	by bike	
la Manche	the Channel	mondial		le brouillard	fog	à métro	by underground	
	Wee	ek 4			We	ek 5		
	Places to st	ay/facilities		Verbs/Activities				
un gite	a holiday home	une vue	a view	rester	to stay	aller à la montagne	to go to the mountains	
une tente	a tent	une piscine	a swimming pool	louer	to hire	aller à un parc d'attractions	to go to an amusement park	
un château	a castle	la plage	the beach	partir	to leave	visiter un musée	to visit a museum	
un chalet	a wooden house in the mountains	la climatisation	air con	voler	to steal	acheter des souvenirs	to buy souvenirs	
au bord de la mer	by the sea	une douche/ un bain	a shower / a bath	profiter de	to make the most of	faire une promenade	to go on a walk	
une chambre	a room	un grand lit	a double bed	dormir	to sleep	faire les magasins	to go shopping	
une île	an island	la porte	door	passer du temps	to spend time	faire du tourisme	to do tourist activities	
un spectacle	a show	l'accueil	reception / welcome	voyager	to travel	sortir en ville	to go out into the town	
le pont	the bridge	l'étage	floor	perdre	to lose	essayer voir	to try to see	

French

3

Free Time Activities

CYCLE 2

Year 10

	Week 6	Week 7		We	ek 8	Week 9		
Past Perfect		Hobbies verbs		Hobbies verbs		Hobbies nouns		
Je suis allé	Iwent	jouer	to play	marcher	to walk	un passe-temps	a hobby	
Je suis resté	l stayed	faire	to do	ouvrir	to open	un journal	a newspaper	
J'ai fait	I did	aller	to go	s'intéresser à	to be interested in	un jeu	a game	
J'ai nagé	Iswam	écouter	to listen	monter	to climb	le prix	the prize	
J'ai commandé	lordered	regarder	to watch	gagner	to win/earn	un stade	a stadium	
J'ai traversé	Icrossed	manger	to eat	acheter	to buy	un livre	a book	
J'ai rêvé	Idreamt	se relaxer	to relax	perdre	to lose	un voyage	a trip	
J'ai dormi	Islept	chanter	to sing	sortir	to go out	un vêtement	clothing	
J'ai acheté	l bought	danser	to dance	participer à	to participate in	un plat	a dish	
J'ai organisé	lorganised	lire	to read	visiter	to visit	la formation	training	
Wee	k 10	Week 11		Week 12		Week 13		
Opin	ions	Spo	orts	Adjectives		Adjectives		
j'aime	Ilike	la natation	swimming	sportif	sporty	intéressant	interesting	
j'adore	llove	la gymnastique	gymnastics	ouvert	open	ennuyeux	boring	
je n'aime pas	l don't like	la voile	sailing	complet	full	super	super	
je déteste	Ihate	le ski	skiing	actif	active	atroce	atrocious	
je préfère	l prefer	le cyclisme	cycling	jeune	young	marrant	funny	
mieux que	better than	le foot	football	populaire	popular	nul	rubbish	
pire que	worse than	le volley	volleyball	gratuit	free (no cost)	amusant	fun	
le meilleur	the best	la boxe	boxing	sûr	safe	fantastique	fantastic	
le pire	the worst	la plongée	diving	dangereux	dangerous	barbant	dull, tiresome	
ce qui est bien/mal	what is good/bad	le tennis	tennis	passionant	exciting	relaxant	relaxing	

4	Science - Trilogy Biology	B4 — Bioe	energetics C	YCLE 2	Year 10	
1. Photosyr	nthesis		4. Aerobic respiration			
Photosynthesis as an endothermic reaction in which energy is transferred from the environment to the chloroplasts by light. Photosynthesis can be represented by the following word and symbol			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.			
equations; light Carbon dioxide + Water $\rightarrow$ Glucose + Oxygen $6 \text{ CO}_2 + 6 \text{ H}_2\text{ O} \rightarrow \text{ C}_6\text{H}_{12}\text{ O}_6 + 6 \text{ O}_2$			<ul> <li>Organisms need energy for:</li> <li>chemical reactions to build larger molecules</li> <li>movement</li> <li>keeping warm.</li> </ul>		erobic respiration is: → carbon dioxide + water (+ → $6 \text{ CO}_2$ + $6 \text{ H}_2\text{O}$	
	: Enters the leaf through diffusion, via small holes called s		5. Anaerobic respiration			
	ne roots via osmosis and then travels up from the roots du					
	bed by the chlorophyll; found in the chloroplasts, located	in the leaf	The equation for anaerobic respiration in musc is:	Anaerobic respir	ration in plant and yeast cells is:	
	een pigment in which chemical reactions take place		Glucose → lactic acid		→ ethanol + carbon dioxide ration in yeast cells is called	
<b>2. Limiting factors of Photosynthesis</b> Limiting factor: environmental condition which limit the growth of a plant			As the oxidation of glucose is incomplete in anaerobic respiration much less energy is transferred than in aerobic respiration.		d has economic importance in e of bread and alcoholic drinks.	
Temperature	If it gets too cold, the rate of photosynthesis will decreas photosynthesise if it gets too hot.	6. Response to exercise				
Carbon Dioxide	Sometimes photosynthesis is limited by the concentrati air. Even if there is plenty of light, a plant cannot photosy insufficient carbon dioxide.		During exercise the human body reacts to the increased demand for energy. The heart rate, breathing rate and breath volume increase during exercise to supply the muscles with more oxygenated blood. If insufficient oxygen is supplied anaerobic respiration takes place in muscles. The incomplete oxidation of glucose causes a build up of lactic acid and creates an oxygen debt. During long periods of vigorous activity muscles become fatigued and stop contracting efficiently.			
Light	Without enough light, a plant cannot photosynthesise ve light intensity will boost the speed of photosynthesis.	ery quickly. Increasing the	Blood flowing through the muscles transports the lactic acid to the liver where it is converted back into glucose. Oxygen debt is the amount of extra oxygen the body needs after exercise to react with			
	wth: artificial lights so photosynthesis continues beyond c g CO2 and heat.	daylight hours, use of paraffin	the accumulated lactic acid and remove it from the cells. 7. Metabolism			
_	are important in the economics of enhancing the condition are of photosynthesis while still maintaining profit.	ons in greenhouses to gain	Metabolism is the sum of all the reactions in a cell or the body. The energy transferred by respiration in cells is used by the organism for the continual enzyme-			
3. Uses of g	glucose from photosynthesis		controlled processes of metabolism that synth Metabolism includes:	esise new molecules.		
The glucose produced in photosynthesis may be:       To produce proteins,         used for respiration       To produce proteins,         used to produce fat or oil for storage       plants also use nitrate ions         used to produce cellulose, which strengthens the cell wall       soil.         used to produce amino acids for protein synthesis.       soil.			<ul> <li>conversion of glucose to starch, glycogen and cellulose</li> <li>the formation of lipid molecules from a molecule of glycerol and three molecules of fatty acids</li> <li>the use of glucose and nitrate ions to form amino acids which in turn are used to synthesise</li> </ul>			

5

Science - Trilogy Physics

P2 – Electricity (inc. Separate Physics only)

1. Circuit symbols	2. Current, potential difference and res	sistance	3. Series and parallel circuits			
	For electrical charge to flow through a close	d circuit the circuit must	There are two ways of joining electrical component	ts, in series and in parallel.		
o switch (open)	include a source of potential difference. Electric current is a flow of electrical charge is the rate of flow of electrical charge. Charge flow (in coulombs) = current (in Am	. The size of the electric current	<ul> <li>For components connected in series:</li> <li>there is the same current through each component</li> <li>the total potential difference of the power</li> </ul>	For components connected in <b>parallel</b> : • the potential difference across each component is the same • the total current through the whole circuit is		
_+	[Q = I t] A current has the same value at any point in		<ul> <li>supply is shared between the components</li> <li>the total resistance of two components is the sum of the resistance of each component.</li> <li>R<sub>total</sub> = R1 + R2 (in ohms, Ω)</li> </ul>	the sum of the currents through the separate components • the total resistance of two resistors is less than the resistance of the smallest individual resistor.		
- (D) diode	The current (I) through a component depen the component and the potential difference greater the resistance of the component the	e (V) across the component. The	4. Domestic uses and safety			
	potential difference (pd) across the compor	nent.	In the UK, mains electricity is an ac supply, has a fre	equency of 50 Hz and is about 230 V.		
variable resistor	pd (in volts) = current (in Amps) × resistand The current through an conductor (at a constant temperature) is directly	ce (in ohms) [V = I R]	Most electrical appliances are connected to the mains using three-core cable. The insulation covering each wire is colour coded for easy identification: live wire – brown, neutral wire – blue, earth wire – green & yellow stripes. The live wire carries the alternating potential difference from the supply. The neutral wire completes the circuit. The earth wire is a safety wire to stop the appliance becoming live.			
	proportional to the potential difference	Potential	5. Energy transfers			
$\bigcirc$	across the resistor. This means that the resistance remains constant as the	difference	power = potential difference × current [P = V I]	power = current <sup>2</sup> × resistance [P = I <sup>2</sup> R]		
——————————————————————————————————————	current changes.	Current	The amount of energy an appliance transfers depends on how long the appliance is switched on for and the power of the appliance. Work is done when charge flows in a circuit. The amount of energy			
	The resistance of components such as lamps, diodes, thermistors and LDRs is		transferred by electrical work can be calculated using the equation: energy transferred = power × time [E = P t] (or) energy transferred = charge flow × potential difference [E = Q V]			
voltmeter	not constant; it changes with the current through the component. The resistance of a filament lamp increases as the temperature of the filament increases.	Potential difference	The National Grid is a system of cables and transformers linking power stations to consumers. Step-up transformers are used to increase the potential difference from the power station to the transmission cables then step-down transformers are used to decrease the potential difference for safer domestic use.			
			6. Static electricity			
A ammeter	The current through a diode flows in one direction only. The diode has a very high resistance in the reverse direction.	Current Potential difference	When certain insulating materials are rubbed agair Negatively charged electrons are rubbed off one mo electrons becomes negatively charged. The materia charge. Two objects that carry the same type of charge repo attract. Attraction and repulsion between two char	aterial and on to the other. The material that gains Il that loses electrons is left with an equal positive el. Two objects that carry different types of charge		
	The resistance of a thermistor decreases as The resistance of an LDR decreases as light i	-	A charged object creates an electric field around itself. The electric field is strongest close to the charged object. The further away from the charged object, the weaker the field. A second charged object placed in the field experiences a force. The force gets stronger as the distance between the objects decreases.			

6 History	Medieval Migration		CYCLE 2	Year 10
Section A – Causation Jewish Migrants	Section B – Italian Migrants	Section C – Flemish Migra	nts Section D -	Diversity of Migrants
<ul> <li>The first Jews in England</li> <li>Invited by William the Conqueror following Norman conquest of 1066, as he needed their expert money skills</li> <li>The contribution of the Jews in England</li> <li>Jews were moneylenders – they lent money to Kings and traders</li> <li>Christians did not lend money - the Pope said it was sinful – therefore Christians relied on Jews for loans</li> <li>Small amounts loaned to traders, vast amounts loaned to kings to build castles and cathedrals</li> <li>Experiences for Jews living in England</li> <li>Jewish communities lived together in small areas of towns - called Jewries</li> <li>Before 1250s Jews generally accepted by English society as they made the economy work</li> <li>Lincoln Blood Libel – in 1255 Jews blamed for disappearance of a young boy – 93 accused of ritual murder and 18 executed</li> <li>Edward I passed new law in 1275 - Statute of Jewry -Jews no longer allowed to be money lenders - all debts owed to them cancelled.</li> <li>1290 - Edward I expels all 3000 Jews left in England</li> </ul>	<ul> <li>Rich banking families arrived from Florence, Genoa, Lucca, and Venice</li> <li>The impact of the bankers on England</li> <li>Italian bankers replaced Jewish money lenders - led to Jewish expulsion</li> </ul>	<ul> <li>Why the Flemish migrated t</li> <li>Wars and rebellions in the Countries</li> <li>England accessible - shor journey</li> <li>England a stable country wages.</li> <li>Kings could make more mexport taxes on cloth rathers or invited Flemish weaver 1330s)</li> <li>The impact of the Flemish</li> <li>Growth of towns where we up cloth manufacturing – jobs as well as kick-startin manufacturing industry in (eg. 1363 – development of town of Manchester)</li> <li>Flemish brick-makers influbuilding styles in South Ea</li> <li>Dutch brewers brought ne beer</li> <li>First printers, clock-make Experiences for the Flemish</li> <li>Given help by kings - allow own guilds</li> <li>Often under threat – Edwareminded mayors that no come to Flemish cloth wo</li> <li>Weavers resented by Engl 1436-7 all recent migrants</li> <li>Low Countries ordered to England unless they boug licence and swore oath of the state of th</li></ul>	e Low every one were bor high num French - English k Icelandic kidnappe Prench reavers set created new ng England of Small England st England was wea therefore migrants A weak k to treat n was wea the S, opticians N ved to set up ard III harm was to rkers ish guilds - s from leave ht a special	came from Gascony (ruled by ings until 1453) boys often bought or ad as servants nities to work as servants, and merchants led to arrival a, Scottish, Irish, Portuguese nish tters of Denization gave the same rights and ns as English (but expensive, unavailable to most

7 History	Early Modern Mig	ration	CYCLE	2	Year 10
Section E – Protestant Refugees	Section F – Economic Migrants (Palatines)	Section G – Economic Mig (Jewish)	rants Se	ection H – W	lider World
<ul> <li>Why did they come?</li> <li>The Huguenots were French Protestants</li> <li>They were persecuted by Catholics in France – St Bartholomew's Day Massacre in 1572</li> <li>Protestantism made illegal in France in 1685</li> <li>England Protestant and welcoming. Charles II offered denizen status in 1681</li> <li>What impact did they have?</li> <li>Crucial role in Britain's transformation into an industrial nation</li> <li>Hard-working and skilled craftsmen and developed silk industry and several others including paper making and furniture.</li> <li>Settled in Spitalfields in London – street names and buildings remain (eg, Fournier Street named after a successful Huguenot)</li> <li>What experiences did they have?</li> <li>Many flourished and over time integrated into English society - Settled permanently, anglicised names and intermarried</li> <li>Some prejudice and hostility – riot in late c17th – Londoners felt their jobs were being taken</li> </ul>	<ul> <li>Why did they come?</li> <li>Warfare, religious persecution and bad harvest in Germany in 1709</li> <li>The Palatines were Protestant - England was a Protestant country</li> <li>Most of the Palatines wanted to travel from Britain to America – a 'promised land'</li> <li>What impact did they have?</li> <li>Limited – some skilled workers, most peasant farmers – reliant on collections and relief funds</li> <li>Not in England long enough to have any impact</li> <li>What experiences did they have?</li> <li>Camped on Hampstead Heath near London</li> <li>Initial sympathetic reception from English, Soon seen a vagrants and a drain on resources - attacked by mobs</li> <li>3,000 failed in attempt to get to, and settle in America. Disastrous deportation to Catholic Ireland for 5,000 – given poor quality land and faced hostility from Catholic majority</li> <li>Many gave up and returned to Germany in 1709</li> </ul>	<ul> <li>Jewish migrants</li> <li>Why did they come?</li> <li>Persecution and hostility including Spain</li> <li>Invited back by Oliver Crowas religiously tolerant and that Jews would help the <b>What impact did they have</b></li> <li>Opened banks, Set up as financiers</li> <li>Prospered in trading ports and Hull</li> <li>Poorer Jews were traveling second hand cloth goods from carts</li> <li>Opened synagogues and communities especially i</li> <li>What experiences did they</li> <li>Wealthier Jews integrated losing some of their Jewis</li> <li>They were restricted from the army, attending universed becoming lawyers</li> </ul>	in Europe, when believed economy raders and s of Liverpool g pedlars hes and other set up n London have? d, albeit by h identities h serving in whether the serving in the serv	ships – ofter transport to Ayahs (fema – served the Company er returned on Some Ayahs in England; o English ports <b>/hat impact d</b> Benefitted th servants <b>/hat experien</b> Often accep servants -So to leave Servants son property <b>frican Migran</b> <b>/hy did they o</b> From 1650s Africa then V brought to E been enslav <b>/hat impact d</b> Benefitted th servants Presence leave racism in En <b>/hat experien</b> Some Africa and some in Most were c	k employment on trading h unable to find return India ale nannies and servants) families of East India mployees when they ships to England s stayed as servants once others were abandoned at s <b>lid they have?</b> he wealthy as cheap <b>nces did they have?</b> he well-treated and free metimes considered as <b>its</b> <b>come?</b> , forcible removal from West Indies No choice – ingland as servants having red in West Indies <b>lid they have?</b> he wealthy as cheap

Г

#### Physical Landscapes in the UK - Rivers

#### CYCLE 2

Year 10

Box	Key Knowled	ige to learn	Box	Key Knowledge to learn
1	Precipitation – Moisture falling from clouds as rain, snow or hail. Interception – Vegetation prevent water reaching the ground. Surface Runoff – Water flowing over surface of the land into rivers Infiltration – Water absorbed into the soil from the ground. Transpiration – Water lost through leaves of plants			<ul> <li>Lower course of a river – Formation of Floodplains and Levees</li> <li>Near the river's mouth, the river widens further and becomes flatter. Material transported is deposited.</li> <li>When a river floods, fine silt/alluvium is deposited on the valley floor. Closer to the river's banks, the heavier materials build up to form natural levees.</li> <li>The positives:</li> <li>✓ Nutrient rich soil makes it ideal for farming</li> <li>✓ Flat land for building houses</li> </ul>
3	Formation of a Waterfall         Image: State of the			River Management Schemes         Soft Engineering         Affore station – Plant trees to soak up rainwater, which reduces flood risk.         Demountable Flood Barriers – Put in place when warning is raised.         Managed Flooding – Naturally let areas flood, protect settlements.         Hard Engineering         Straightening Channel – Increases velocity to remove flood water         Artificial levees – heightens river so flood water is contained         Deepening or widening river – to increase capacity for a flood
	Here the gradient gets gentler, so the water has less energy and moves more slowly. The river will begin to erode laterally making the river wide.Step 1Step 2Step 1Further hydraulic action and abrasion of outer bank forms river cliff. Deposition inner bank forms slip off slope.Further hydraulic action and abrasion of outer banks, neck gets smaller.Step 3Step 4Step 3Step 4Step 4Step 3Erosion breaks through neck, so river takes the fastest route, redirecting flowEvaporation and deposition cuts off main channel leaving an oxbow lake.		6	<ul> <li>Flood Hydrographs and River Discharge</li> <li>River discharge is the volume of water that flows in a river. Hydrographs who discharge at a certain point in a river changes overtime in relation to rainfall</li> <li>1. Peak discharge – is the discharge in a period of time</li> <li>2. Lag time – is the delay between peak rainfall and peak discharge.</li> <li>3. Rising limb – is the increase in river discharge</li> <li>4. Falling limb – is the decrease in river discharge to normal level.</li> </ul>

Physical Landscapes in the UK - Coasts

Week	Key Knowledge to learn						
6	<ul> <li><u>Coasts - Waves</u></li> <li>Speed of the wind, how long the wind has being blowing for, the fetch (the distance the wind has being blowing for).</li> <li>Constructive <ul> <li>Low waves, long wavelengths, far storms</li> <li>Rove (build up beeches (mainly summar)</li> </ul> </li> </ul>	<ul> <li>Destructive</li> <li>High waves, short wavelengths, storms</li> <li>Exposed areas / destroys beaches / winter</li> <li>Weak swash / strong backwash (taking material back)</li> </ul>					
7	<ul> <li>Bays / build up beaches / mainly summer</li> <li>Strong swash (material brought up the beach) / weak backwash</li> <li>Coasts - Physical Processes</li> <li>Weathering Processes</li> <li>Chemical: chemical reaction with rocks</li> <li>Mechanical: freeze-thaw (FTW) ? water gets into cracks ? drop in temp. ? freeze ? expand ? rock cracks</li> <li>Transportation:</li> <li>Solution: particles dissolved are carried in water</li> <li>Suspension: particles carried within the water</li> </ul>	<ul> <li>Mass Movement</li> <li>Sliding: material on mass moves downslope</li> <li>Slumping: material moves in a straight path</li> <li>Rock fall: rocks fall off cliff face due to FTW.</li> <li>Erosion</li> <li>Hydraulic Action: sheer force of the water</li> <li>Attrition: rocks collide with rocks / sea bed</li> <li>Abrasion: rocks rub against sea bed</li> </ul>					
8	<ul> <li>Saltation: particles hop along sea floor</li> <li>Traction: large boulders roll along sea floor</li> <li>Coasts - Longshore Drift Movement of Sediment Along a Coastline <ul> <li>Prevailing wind (direction where the wind is blowing from the most often) causes waves to arrive at the coast at an angle</li> <li>Beach material moves up in the swash at an angle</li> <li>Gravity causes the waves and sediment to return to the beach at 90° in the backwash</li> <li>This repeats in a zig zag motion along the beach</li> <li>A natural feature such as a headland or a man-made groyne can stop the material moving and cause it to build up</li> </ul> </li> </ul>	<ul> <li>Solution: rocks dissolve in water</li> <li>Formation of a Spit</li> <li>1. Sand or shingle ridge formed by long-shore drift</li> <li>2. Longshore drift transports sand along the coast (material is carried up the beach in the swash at an angle due to the prevailing wind and back in the backwash at a right angle</li> <li>3. There is a change in the shape of the coastline</li> <li>4. Long shore drift continues to occur and material builds up with a spit growing out to sea</li> <li>5. The spit is exposed to a change in wave direction causing a curved / hooked end</li> <li>6. A saltmarsh and or mudflats form behind the spit due to the low energy depositional environment</li> </ul>					

10	Geography	Physical Landscapes in the U	K - Coasts	CYCLE 2	Year 10
Week	Ke	ey Knowledge to learn			
9	Coasts - Erosion Feat	ures Deposition Features	Wave-cut Platform Form	nation	
	<u>Headlands and Bays</u>		1.Features of concorda	nt and discordant coastline	S
	1.Features of a discord	ant coastline.	-		osion (Hydraulic Action and
	2.Layers of hard and so	ft rock at right angles to the coast	Attrition) occurs causing	g a notch to form between th	e low and high tide level
	3.Erosion (Hydraulic A more quickly	action) erodes the softer less resistant material	3.The notch becomes b 4.The cliff becomes wea	igger overtime aker at the top due to freeze-1	thaw weathering
	4.The erosion causes a	bay to form overtime			ass movement (land slide or
		bay the hard rock layers stick out into the sea and	rock fall)		
	become subject to eros	sion	6.The cliff face is steep used to be)	ened and a wave cut platfor	m is created (where the cliff
	6.The headlands will be	e eroded overtime	7.The process repeats overtime		
	7.The process repeats	uin a			
10	Coasts - Hard Enginee All found at Hornsea:				
	Sea Walls Concrete	wall adjacent to the cliffs 🛛 made of concrete and st for many years, strong , (-) £5,000 a metre, ugly to	-	e of wall absorbs wave ener	gy / top deflects energy , (+)
	-	ictures at 90° to the coastline, trap sediment 🛽 bea iment supply down the coast and can increase eros	•	ve energy, (+)windbreaks, st	ops long-shore drift, £5,000
	Gabions: Rocks in st	teel cages built as wall 🛙 absorb wave energy, (+) £1	10 a metre, last 20 to 25	years, (-) dangerous when da	amaged 🛙 hurt sea birds feet
	Rock Armor: Large rocks imported and	boulders in a row 🛛 absorbs wave energy (+) £1,00 inflates the costs.	00 a metre, quick and eas	sy to complete, (-) makes a	ccess to the beach difficult,
11	Coasts - Soft Engineer	ring			
	Found at Hornsea:				
	<ul> <li>Beach nourishment:</li> </ul>	Adding sand to the beach $ ightarrow$ more wave energy ab	sorbed		
	• (+) wider beach mea	ns more room for users protects coastal properties	s, (-) costs £300,000 to hi	re a dredger, needs to be rep	eated
	Beach profiling: Incr	easing beach height increases erosion protection f	rom the cliffs $ ightarrow$ more end	ergy absorbed	
	(+) protects a large area of land				
	• (-) bulldozers restric				
	Found at Bridlington:				
	Sand Dune Regeneration	ation: Marram grass can stabilize sand dunes whicl	h act as a natural buffer b	etween the and sea	
	• (+) sand dunes prote	ect land, small planting projects use volunteer labo	ur (-) has to be checked u	sing twice a year, sand dune	s change naturally

11	English		A Christmas Carol	CYCLE 2	Year 10		
BOX A: Plot			Characters and key quotations		BOX E: Context		
Stave 1 Scrooge is at work. Despite the Christmas Eve cold, he refuses to spend money on coals for the fire. Scrooge turns down his nephew, Fred's, invitation to his Christmas party and he also rejects the request of two men who want money for charity. Scrooge is visited by the ghost of his dead partner, Jacob Marley, who tells Scrooge that, due to his greedy life, he has to wander		BOXB	<ul> <li>Ebenezer Scrooge: A selfish business man ("Humbug") who transforms into a charitable</li> <li>"he was a tight-fisted hand at the grindstone,a squeezing, wrenching, grasping, scrasinner! Hard and sharp as flint, from which no steel had ever struck out generous fire solitary as an oyster."</li> <li>"The cold within him froze his old features and didn't thaw it one degree at Christm</li> <li>"It's not my business."</li> <li>"Best and happiest of all. The Time before him was his own to make amends."</li> </ul>	<ol> <li>1) 1824 – Dickens' father is sent to jail for debt and Dickens has to give up his education until his father inherits some money and he goes to a private school.</li> <li>2) Dickens was put to work in a warehouse. He had experience of</li> </ol>			
the Earth wearing chains.	He warns Scrooge and tells visit him. Scrooge falls asleep.		<ul> <li>Jacob Marley: Scrooge's dead partner who returns as a ghost to warn Scrooge to change</li> <li>of cash-boxes, keys, padlocks, ledgers, deeds, and heavy purses wrought in steel."</li> <li>"Mankind was my business; charity, mercy, forbearancewere, all, my business."</li> </ul>	his ways.	poverty.		
a journey. Invisible to thos his childhood school days	of Christmas Past takes him on se he watches, Scrooge revisits and his apprenticeship with a		<ul> <li>Fred: Scrooge's nephew whose party invitation he declines.</li> <li>"He had so heated himself with rapid walking in the fog and frost that he was all in handsome; his eyes sparkled, and his breath smoked again."</li> </ul>	a glow; his face was ruddy and	3) Later he worked as a clerk and then became a writer of fiction and journalism, reporting on court cases and working for radical newspapers on his divilusionment with politics and the		
jolly merchant named Fezziwig, and his engagement to Belle. All of these past events shows how Scrooge wasn't always the unfriendly miser that he has become. Scrooge sheds tears of regret before being returned to his bed. Stave 3 The Ghost of Christmas Present shows Scrooge Christmas as it will happen that year. Scrooge watches the Cratchit family eat a tiny meal in their little home.			<ul> <li>Ghost of Christmas Past: A strange combination of young and old, wearing white robes a     "It was a strange figure-like a child: yet not so like a child as like an old man"</li> <li>"What was light one instant, at another was dark, so the figure itself fluctuated in its</li> </ul>	-	disillusionment with politics and the class system.		
		BOXC	<ul> <li>Ghost of Christmas Present: A portly, jovial gentleman surrounded by a warm glow. He sare.</li> <li>"Its dark brown curls were long and free; free as its genial face, its sparkling eye, its demeanour and its joyful air."</li> <li>"I see a vacant seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seatif these shadows remain unaltered by the Future, the child will demean out and seat</li></ul>	neery voice, its unconstrained	4) 1832 – The Great Reform Bill gave many middle class property owners the right to vote for the first time. Large sections of the middle classes, the working classes and women still didn't have the right to vote.		
kindness and humility war that if nothing changes, hu Scrooge his nephew's Chri spirit to stay until the very day, the ghost shows Scro			<ul> <li>Ghost of Christmas Yet to Come: A robed and hooded spirit who confronts Scrooge with frightening and shows Scrooge his future and what will become of him if he does not chance a solemn Phantom draped and hooded, coming like a mist along the ground, toward "Scrooge feared the silent shape so much that his legs trembled."</li> <li>"The Phantom slowly, gravely, silently approached."</li> </ul>	5) 1834 – Poor Law Amendment Act, which meant that the rich no longer had to pay taxes in order to help the poor. Workhouses were created which poor			
Ignorance and Want. He v dark, hooded figure comir	vanishes as Scrooge notices a ng.		Belle: A woman who scrooge was engaged to who left him due to his greed. - "Another idol has displaced me"		people would have to live and work in.		
man's death, the Ghost of shows Scrooge that nobo	dy mourns his death and the		<ul> <li>Fezziwig: Scrooge's ex-employer who is fair to all his employees and knows the true means of benevolence; and called out in a comfortable, oily, rich, fat, jovial voice:"</li> </ul>		6) 1842 Report on Child Labour The report's findings shocked society and led to safety legislation in mines and factories.		
only emotion felt is one of happiness and relief. Scrooge, is keen to learn the lesson. After seeing the death of Tiny Tim, he is desperate to change his fate and promises to change his ways. He suddenly finds himself safely tucked in his bed. <b>Stave 5</b> Scrooge rushes out onto the street hoping to share his newfound Christmas spirit. He sends a turkey to the Cratchit house and goes to Fred's party. As the years go by, he continues to celebrate Christmas with all his heart. He treats Tiny Tim as if he were his own child, gives gifts for the poor and is kind, generous and warm.			Mrs Cratchit: Bob's wife who is critical of Scrooge and how poorly he pays her husband. -"I'd give him a piece of my mind to feast upon, and I hope he'd have a good appetite for it."		7) September 1843 – Dickens visits a		
		BOX	Bob Cratchit: Scrooge's clerk who doesn't have much money. He loves his family and is shown to be happy and morally upright.		"Ragged School." A School for poor children offering free education.		
				and Tiny Tim upon his shoulder."	8) December 1843 Dickens writes A Christmas Carol focusing on how many		
			<ul> <li>Tiny Tim: Bob's ill son whose story plays a part in inspiring Scrooge's transformation</li> <li>"Alas for Tiny Tim, he bore a little crutch."</li> <li>"God bless us every one!"</li> <li>"As good as gold."</li> </ul>		of society's ills can be blamed on greed for money and status.		

12	English	A Christmas Carol	CYCLE 2	Year 10
BOX F: Big Ideas		Box G: Character Vocabulary		BOX H: Essay Vocabulary
Malthusian Ideology: Dickens critiques Malthusian ideas through characters like Scrooge, who initially believes that helping the poor is unnecessary and that population control would solve economic problems.		Ebenezer Scrooge Parsimony: Scrooge is notorious for his extreme frugality, refusing to spend money even for bas Avarice: His greed for wealth is relentless, driving him to neglect personal relationships and hum Enlightened: By the end of the novella, Scrooge becomes enlightened, realizing the importance connection.	Criticise: To evaluate something in a detailed and analytical way, pointing out its strengths and weaknesses. In essay writing, it means discussing the flaws, limitations, or areas for	
	nbodies parsimony in his y, even for basic comforts, e toward others.	Bob Cratchit Submissive: Despite Scrooge's harsh treatment, Cratchit remains humble and obedient in his rol Benevolent: Bob consistently displays kindness and warmth, particularly in his role as a father and	improvement in a text or argument.	
<ul> <li>Avarice: Scrooge's avarice is a central aspect of his character, driving his isolation and moral downfall until his eventual transformation.</li> <li>Philanthropy: Scrooge's eventual change leads</li> </ul>		Resilient: He endures hardship with grace, maintaining hope and love for his family even in the Tiny Tim Innocent: Tim is characterized by his pure-heartedness and lack of bitterness despite his illness a Fragile: His physical frailty is central to his character, symbolizing the vulnerability of the poor. Inspiring: Tim's optimistic outlook and faith, especially his famous line, "God bless us, every one Scrooge.	<b>Expose</b> : To reveal or uncover something that was hidden or not immediately obvious, often pointing out issues, contradictions, or deeper truths within a text or argument.	
him toward philanthropy as he becomes generous with his wealth, helping those in need, including the Cratchit family.		Fred (Scrooge's Nephew) Optimistic: Fred maintains a positive outlook on life and Christmas, even when faced with Scroo	Furthermore: Used to introduce an additional point or argument that supports or builds upon the	
	initially represents cynical and cold-hearted le, particularly the poor and	Affectionate: He shows genuine care for his uncle, persistently inviting him to Christmas dinner Gregarious: Fred is sociable and joyous, embracing the spirit of community and celebration duri The Ghost of Christmas Past		previous one. It signals that more evidence or reasoning is being added to strengthen the
Benevolence: Characters like Fred, Scrooge's nephew, and Fezziwig show benevolence, which		<b>Nostalgic</b> : This spirit evokes feelings of reflection and longing for Scrooge's lost youth and bette <b>Ethereal</b> : The Ghost's supernatural, dreamlike presence embodies a connection between time a <b>Illuminating</b> : By showing Scrooge his past, the spirit illuminates key moments that shaped his cu	case. Highlights: To draw attention to	
contrasts sharply with Scrooge's miserly nature at the start of the novella.		The Ghost of Christmas Present Magnanimous: The Ghost embodies generosity, displaying the abundance and joy of Christmas	or emphasize a particular point, idea, or detail. In essay writing, it shows what the writer believes is important or noteworthy in the	
Malevolence: Although Scrooge isn't actively malevolent, his indifference to the suffering of others can be seen as morally harmful, especially in his treatment of Bob Cratchit and the poor.		Candid: The Ghost is straightforward in revealing the harsh realities of poverty and how it affect The Ghost of Christmas Yet to Come (Future) Ominous: The silent, foreboding presence of this spirit strikes fear in Scrooge, representing dear	analysis.	
	kens highlights the plight of	<b>Unyielding</b> : The Ghost offers no words or comfort, showing Scrooge the stark reality of what aw path.		something without directly stating it. In an essay, this term is used when discussing how a text
family and the symboli "Want" (the children se Christmas Present's vis	ism of "Ignorance" and een in the Ghost of ion), critiquing Victorian	Jacob Marley Tormented: Marley is condemned to eternal suffering for his greed and warns Scrooge of the sa Penitent: Despite his own damnation, Marley is repentant and seeks to save Scrooge from a sim		or argument hints at deeper meanings or ideas.
pursuit of profit at the		Fezziwig Jovial: He brings joy and lightness to the atmosphere, treating others with warmth and good che Altruistic: Fezziwig uses his wealth to create happiness for others, contrasting sharply with Scro Belle (Scrooge's former fiancée)		<b>Significantly</b> : Used to indicate that something is important or has a major impact. In essays, this word helps emphasize the weight or importance of a particular point theme or
	ad social welfare alongside	Affectionate: Belle was once deeply in love with Scrooge before his obsession with wealth drove Disillusioned: Over time, she becomes disillusioned with the man Scrooge has become, as he pr		particular point, theme, or finding.

	13	RE	Christian Pra	octio	се	CYCLE 2	Year 10		
1 - Worship	<ul> <li>Christian. community saying the same thing at the same time and reminds them of the never changing nature of God, as it is the same in all churches that use it.</li> <li>Others prefer informal or private worship as it enables them to directly experience God for themselves, rather than going through ministers who may have different or misleading understanding of God; it is also easier to join in with if you are new to that particular church. All</li> </ul>		4 Sacrament- Eucharist	<ul> <li>The Eucharist celebrates the Last Supper the night before Jesus was crucified.</li> <li>The Last Supper was the final meal that Jesus shared with his disciples when instructed them to remember him.</li> <li>At the last supper Jesus blessed and shared bread and wine.</li> <li>It helps Christians remember and reflect on Jesus's sacrifice for them on the cross – his body was broken and his blood spilled to save them from death and the consequences of sin.</li> <li><u>Scripture says: "Take, eat, this is my body. Take, drink, this is my blood. Do this in remembrance me." (Bible)</u></li> <li>Some churches eg Catholic use wine at the Eucharist as Jesus used it at the Last Supper.</li> <li>Others eg Methodists use non-alcoholic juice as they believe alcohol can cause problems and the don't want to encourage people to use it.</li> <li>Catholics believe in transubstantiation – the bread and wine really become Christ's body and blow when they are blessed by the priest.</li> <li>Catholics call the Eucharist "Holy Communion" or Mass</li> <li>Others eg Methodists believe the bread and wine are simply symbols that help us remember Jesu sacrifice on the cross</li> </ul>					
2 – Prayer	<ul> <li><u>The Lord</u> they shou</li> <li>Set praye <u>Praver</u>).</li> <li>Informal</li> <li>Arrow pra him live"</li> <li>Jesus tau door."</li> <li>Some pra want they believer.</li> <li>Others pi better an understa</li> </ul>	Informal prayer: prayers made up by the person praying. Arrow prayers: very quick prayers sent up quickly to God in a moment eg "Help me God" or "Let him live". Jesus taught Christians should pray in private " <u>When you pray, go into your room and close the</u>		5 – Pilgrimage	<ul> <li>Pilgrimage means going on a journey to spend time in the presence of God, visit holy sites and reach new spiritual insights</li> <li>Christians believe the Virgin Mary appeared to a girl called Bernadette in the village of Lourdes in 1844 and that she said that should build a chapel so that people could pray</li> <li>Other pilgrimage sites are dedicated to quiet reflection and spend some time living in a community based on Christian values eg Iona.</li> <li>Iona is a Scottish Island which pilgrims have visited since the 7th Century. It was the home of one of the first and most important monasteries in Britain.</li> <li>Pilgrimage can also be about visiting places connected to the life of Jesus so that they can get closer to Jesus the man.</li> <li>Christians call this place the Holy Land and visit places such as Bethlehem and Jerusalem</li> <li>Some say it is important because it enables you to leave secular life behind and focus fully on understanding God.</li> <li>Others say it is not commanded in the Bible so not necessary; you could achieve the same insights by reading about holy people and places, and donate the cost of the journey to charity instead</li> <li>Christmag is a time to thank God for the incamation of Jesus and to go to Church and pray</li> </ul>				
3 Sacrament- Baptism	<ul> <li>with God</li> <li>Jesus w</li> <li>At the m voice of</li> <li>In the bi water ar</li> <li>Water is sins bein</li> <li>Baptism commu</li> <li>White cl</li> <li>Some bein disciple</li> <li>Others sing case the</li> <li>It is also commu</li> </ul>	and to understand God through as baptised by John the Baptist i oment of his Baptism all three p God the Father and the Holy Spi ble, Jesus taught " <u>None can ent</u> ad spirit." poured over the head, or the pe mg washed away. cleanses sin and welcomes a n nity. othes are often worn to symboli elieve infant baptism is not nece g baptised; infant baptism is poi of Jesus; the Bible only mention say Jesus clearly taught that all r ey die and need to enter heaven to o a good way to mark the birth of	arts of the trinity were present. Jesus the Son, the irit descending as a dove. er the Kingdom of God unless they are born again of arson is fully immersed in water, to symbolise their ew believer into the Christian Church family and se purity. ssary as a just God would not send a baby to hell for ntless as the child is too young to commit to being a s adults being baptised. nust be baptised as soon as possible after birth in very young (see Scripture on the left).	6 - Celebration	<ul> <li>Christmas is a time to remem</li> <li>Christmas can include the for carols; charity donations; spearound Christmas Day</li> <li>The season before Christmas</li> <li>Easter remembers' Jesus suf</li> <li>Easter recalls the act of recorenabled to happen</li> <li>The 40 days before Eater are through fast and prayer.</li> <li>Easter week starts with Palm</li> <li>Maundy Thursday celebrates</li> <li>Good Friday is the day the Jest</li> <li>Easter: Easter vigil, going to carols death and resurrection</li> <li>Many see Easter as more sign</li> </ul>	sus crucifixion is remembered Resurrection hurch, decorating eggs, lighting the P	were born and grew up in poverty. ; Christmas cards and presents; blunteering with the homeless on or ion for Christmas resurrection ; that Jesus' death represented and this time Christians prepare rinto Jerusalem aschal candle; reflecting on esus' resurrection that showed he		

	14		RE	Chris	stian Practice			CYCLE 2	Year 10	
7 – The role of the Church in the local community	<ul> <li>Food banks help those who are in poverty by giving parcels containing donated food to last three days</li> <li>Street pastors help those who are vulnerable to crime and alcohol abuse late at night in city centres</li> <li>Scripture: Both show Christians performing the duty to "Love they neighbour" and help the needy as taught in the Parables of the Sheep and Goats and the Good Samaritan</li> <li>In the Parable of the Sheep and Goats suggests</li> <li>Some say doing your Christian duty through actions in the community</li> </ul>		10 – The Worldwide Church Responding to persecution	•	Jesus taught that we should love our rewards in heaven St Peter wrote to Christians who wer purification to make them more fit for should trust God to help them in the Christians will attempt to fight perse openly CASE STUDY: Open Doors is an orga providing lawyers to help Christians Christianity is not the main religion, a Christians face of persecution so the They work and pray for peace, justice	e persecution as a form of sharing in Jesus' sufferings and eventing from worshipping nristians worldwide today by emy in countries where tian countries of the risks other ney lwide				
8 – A growing Church	•	achieve a pu "Evangelism converting p CASE STUD example of <u>Scripture: "It</u> teaching the Missionary v developing o Jesus. Servi support Chr overseas an hear it.	means sending – the idea that Christians have been sent to purpose by God, eg help the poor or victims of crime sm" means spreading the Gospels, usually with the aim of g people to Christianity IDY: The Church Army's Sorted Project in Bradford is an of mission and evangelism in our local community <u>"Go, and make disciples of all nations, baptising themand</u> <u>hem to obey all that I have taught you."</u> y work happens in the UK and overseas, particularly in g countries, to grow the church and spread the teachings of ving in Mission works in the UK and West Africa: they hristians to go and work in education and medicine in and preach to those whom they have helped, if they wish to		11- Christian responses to poverty	• • • •	<ul> <li>Jesus taught in the Parable of the Sheep and Goats that for Christians to achieve salvation thelp those who are in need</li> <li>The Golden Rule "treat others as you wish to be treated" suggests we should help people in situations, since we would want them to do the same to us – including poverty</li> <li>Christians respond to poverty by donating to food banks or volunteering to help them because Parable of the Sheep and Goats.</li> <li>The Parable of the Sheep and Goats is in Matthew 25</li> <li>The Parable says that "But when the Son of Man comes in his glory, and all the holy angels we then he will sit on the throne of his glory. Before him all the nations will be gathered, and separate them one from another, as a shepherd separates the sheep from the goats.</li> <li>The sheep represent those that have followed Christian teaching and the goats are those that followed teaching.</li> <li>They therefore may respond by giving money to charities that help the poor worldwide Christian Aid, or helping Christian Aid raise money by going door to door in their fundraising carin May every year</li> </ul>			
		<ul> <li>Evangelical churches are growing in the UK; they plant new churches to spread Jesus' message and worship him. Their structure is different to traditional denominations with cells which meet in people's homes as well as wider congregations and celebrations across a number of churches. Church Planting = opening new churches eg the Leeds Vineyard Project</li> <li>Jesus' death was an act of reconciliation between humans and God</li> <li>Christians believe that reconciliation with former enemies is</li> </ul>		- Christian Aid Overseas	• • • •	Christian Aid's work overseas: Christian Aid was set up in 1945. It was first set up by British and Irish Emergency aid helps in natural disa well as sending doctors and rescue Short term aid comes next to rebui get children back to school, especia Long term development aid is esse	esters with food and bottled wate workers to disaster zones Id communities, reunite families Illy if orphaned	who have been separated and		
9 - The Worldwide Church Working for reconciliation	•	those who Christians as Jesus re Scripture: J you" The Bible to CASE STUE reconciled Two. Today them in tal	y difficult, but Jesus taught to love your enemy and bless o curse you, so they must try to do this s believe people should be reconciled to each other, just reconciled God and humankind. : Jesus taught "love your enemy and bless those who curse teaches that Jesus' death reconciled God and humans. JDY: the Community of the Cross of Nails in Coventry d with Germany who bombed their cathedral in World War ay, they work with groups in conflict worldwide to guide alking and listening to each other to increase nding of each other's point of view; this reduces tensions		13 – 12 Christian Aid At home	• • • •	by LICs to HICs, corruption in LICs and medical workers. Christian Aid campaign so that the through funding welfare benefits an Increasing public awareness eg ge through education programmes in s Fundraising: raising money to help development to reduce poverty for t They knock on doors and hold a fund They encourage Christians to give speakers, ambass ador and teacher	igging wells and training health in the UK and worldwide more d letting LICs off debt ainst poverty in the media and cy situations plus longer term ar to do this.		

15	Maths				CYCLE 2	Year 10	
BOX 1: Rati	BOX 3: Probability LIKELIHOOD VOCABULARY						
Ratio Ratio Notation Proportion Part ( <i>Share</i> ) Whole Unit Compound Units	Compares the size of one part to The ratio of A to B is written as A:I Proportion compares the size of a the whole. A proportion of the original amou The total amount. A standard amount used to mean A unit made of two other units. e per time m/s.	en as <b>A:B</b> e size of one part to the size of nal amount. I to <b>measure</b> something r <b>units</b> . e.g. speed is distance		ImpossibleWhen there is no chance – it will not happen. An outcome was a probability of 0.UnlikelyWhen it will probably not happen. An outcome with a probability between 0 and 0.5.EvenWhen there is an equal chance of something happening or thappening. An outcome with a probability of 0.5LikelyWhen it will probably happen. An outcome with a probability between 0.5 and 1.CertainWhen it is inevitable – it will definitely happen. An outcome with a probability of 1.FairWhen all outcomes are equally likely.			
	Bias	Bias When something is <b>not fair</b> .					
BOX 2: Percentages and interest PERCENTAGE CALCULATIONS			amount		Interest calculated as a percentage amount, so the <b>same amount</b> is ac	lded each year.	
Multiplier	A percentage written as a <b>decima</b> You can then use multiplication to	Exponentia Growth	IL	When we multiply a number <b>repea</b> t number ( <b>more than</b> 1), so it <b>increa</b> proportion each time.			
Percentage increase Percentage decrease		<b>dding</b> a percentage to the original amount. <b>ubtracting</b> a percentage from the original amount.		1	An example of exponential growth. Interest paid on the original amoun interest, so each year a <b>larger amo</b> <b>R = A x M<sup>n</sup></b> R is the <b>end value</b> . A is the <b>starting</b>	<b>unt</b> of interest is paid.	
Percentage Change	The change between the <b>old</b> <b>value</b> and the <b>new value</b> as a percentage	$\frac{Difference}{Original} \times 100$	r		per year		
Reverse Percentage	Working <b>backwards</b> to find <b>100%</b>		Decay		When we multiply a number <b>repeatedly</b> by the same number ( <b>less than</b> 1), so it d <b>ecreases</b> by the same proportion each time.		

BOX 4: Collecting, representing and interpreting data									
DISPLAYING	CATEGORICAL DATA		SPREAD OF DA	TA		AVERAGES			
Frequency	The <b>number of times</b> an event or a value occurs		-		sure of <b>spread</b> calculated by: gest value subtract the smallest	Average	A number expressing the central or typical value in a		
Frequency table	A table, usually a tally, showing the <b>totals</b> of data.		InterquartileA measure of spread calculated by:Rangethe upper quartile subtract the lower quartile			Mean	set of data Method: <b>add up all the</b>		
Bar chart	A chart where the				IVICALI	amounts, and then divide the			
	<b>height</b> of the bars represents the	Cuumbbu/	Outlier	A value that 'lies outside' most of the			total by the number of amounts		
	frequency. There are gaps between bars.	0 5 1 2 3 2 Number of pols owned		An out	other values in a set of data. An outlier is <b>much smaller</b> or <b>much larger</b> than the other values in a set of data.		The value which <b>occurs the most</b> .		
Compound / composite	A bar chart showing data <b>stacked on top</b> of	N V N	COMPARING D	DATA			Bi-modal is where there are two modes. There sometimes is no mode.		
bar chart	each other.			•	<b>averages</b> to say who is ter/taller.				
Comparativ e / dual bar				Compare	ompare <b>ranges</b> to say who is more <b>nsistent</b> / less varied.		In grouped data, the class (group) with the <b>highest</b>		
chart		30 Bristol Bristol	TYPES OF DA	TA			frequency		
		0 Jan Feb Mar Apr May Month Dual Bar Chart	Qualitative	litative Data that can only be written in <b>words</b> , not numbers, e.g. eye colour, favourite animal		Median	The <b>middle value</b> ( <b>half way</b> through the data).		
Pictogram	A chart where each <b>picture</b> represents a		Quantitative <b>Numerical</b> data, e.g. shoe size, height of a				Method: <b>put the data in</b> numerical order, and state		
	set frequency It has a <b>key</b> to tell you what each picture is	Black R R F Rol R R R Green 6 R R R Ottoss R R R R		plant.			the middle value.		
			DISPLAYING	UNGROU	PED DISCRETE NUMERICAL DATA				
	worth.		Stem and leaf diagram A way of displaying a list of numbe				stem leaf Key		
Pie Chart	A chart where the size of the <b>sector</b> of the	France	<b>stem</b> goes down and the <b>leaves</b> go the right. It has a <b>key.</b>			out to	5 6 6 7, 7, 9 7 2, 4, 7, 7, 8 6 7 = 67		
	circle represents the frequency	England Wales	Vertical line gi	aph	Like a bar chart, but the bars have no they are just <b>straight lines</b> up the pa	· · ·			