## 2024/25 Cycle 2 Knowledge Navigator

## Year 9

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!

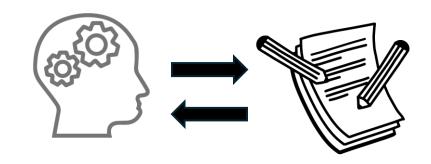
Read the information and try to memorise it.

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 2 A4 sides. The more you repeat this process, the more facts you will remember for your exams!



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#### 100% Sheets

13 | Maths

15 | RE

1

Homework Schedule

CYCLE 2

Year 9

	١	Neek 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 B1 Box 1	17/12/24	Science B1 Box 2 & 4	07/01/25	Science B1 Box 3	14/01/25	Science C1 Box 1 & 2	21/01/25	Science C1 Box 3 & 4
Wednesday	11/12/24	History Section A	18/12/24	Geography	08/01/25	History Section B	15/01/25	Geography	22/01/25	History Section C
Thursday	12/12/24	English Box A <i>Sparx Ma</i> ths	19/12/24	English Box B Sparx Maths	09/01/25	English Box C <i>Sparx Ma</i> ths	16/01/25	English Box D <i>Sparx Ma</i> ths	23/01/25	English Box E Sparx Maths
Friday	13/12/24		20/12/24	Spellings Week 2	10/01/25	Spellings Week 3	17/01/25	Spellings Week 4	24/01/25	Spellings Week 5
	١	Neek 6		Week 7		Week 8		Week 9	v	Veek 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 C1 Box 5	04/02/25	Science B1 Box 1	11/02/25	Science B1 Box 2 & 4	25/02/25	Science B1 Box 3	04/03/25	Science C1 Box 1 & 2
Wednesday	29/01/25	Geography	05/02/25	History Section D	12/02/25	Geography	26/02/25	History Section E	05/03/25	Geography
Thursday	30/01/25	English Box A Sparx Maths	06/02/25	English Box B Sparx Maths	13/02/25	English Box C Sparx Maths	27/02/25	English Box D <i>Sparx Ma</i> ths	06/03/25	
Friday	31/01/25	Spellings Week 6	07/02/25	Spellings Week 7	14/02/25		28/02/25	Spellings Week 9	07/03/25	
	v	Veek 11	V	Veek 12	V	Veek 13				
Monday	10/03/25	French	17/03/25	French	24/03/25	French				
Tuesday	11/03/25	Science C1 Box 3 & 4	18/03/25	Science C1 Box 5	25/03/25	Science B1 Box 2 & 4	DIXONS			
Wednesday	12/03/25	History Section F	19/03/25	Geography	26/03/25	History Section G and H				
Thursday	13/03/25	English Box E <i>Sparx Ma</i> ths	20/03/25	English Box A <i>Sparx Ma</i> ths	27/03/25	English Box B <i>Sparx Ma</i> ths				VII
Friday	14/03/25	Spellings Week 11	21/03/25	Spellings Week 12	28/03/25	Spellings Week 13				

2	French	Media/Celebrity Culture			СҮС	CLE 2	Year 9		
	We	eek 1		We	Week 2 Week 3				
	Technol	ogy Verbs		Technology nouns Technology adjectives					
jouer	to play	créer	to create	des recherches	some research	inquiétant	worrying		
recevoir	to receive	surfer	to surf	des films	some films	cher	expensive		
communiquer	to communicate	passer	to spend time	des réseaux sociaux	some social networks	dangereux	dangerous		
produire	to produce	regarder	to watch	des achats en ligne	some purchases online	facile	easy		
utiliser	to use	voler	to steal	la musique	music	disponible	abailable		
télécharger	to download	allumer	to turn on	un écran tactile	a touch screen	moderne	modern		
envoyer	to send	partager	to share	des jeux vidéos	some video games	rapide	quick		
découvrir	to discover	parler	to speak	un portable	a mobile	sûr	safe		
enregistrer	to save	harceler	to bully	une tablette	a tablet	numerique	digital		
discuter	to discuss	toucher	to touch	un ordinateur	a computer	technique	technical		
	We	eek 4		Week 5					
	Celebrity C	Culture Verbs		Celebrity Culture Nouns					
chanter	to sing	reconnaître	to recognise	un acteur	an actor	une célébrité	a celebrity		
porter	to wear	célébrer	to celebrate	l'argent	money	la mode	fashion		
exprimer	to express	coûter	to cost	un chanteur	a singer	une équipe	a team		
raconter	to tell	diriger	to guide	un écrivain	a writer	un chanson	a song		
suivre	to follow	respecter	to respect	un entretien	an interview	les paroles	lyrics		
je suis* (suivre)	Ifollow	présenter	to present	un influenceur	an influencer	un spectacle	a show		
annoncer	to announce	persuader de	to persuade	le prix	the price	une étoile	a star		
inspirer	to inspire	entrer	to enter	une selfie	a selfie	la richesse	wealth		
se rappeler	to remember	regarder	to watch	un auteur	an author	la voix	voice		

3	French	Education			C	YCLE 2	Year 9
	Veek 6	-	ek 7	Wee		Week 9	
Verbs	- Education	Irregular verb	s - Education	Subje	ects	Sc	chool life
réviser	to revise	apprendre	to learn	l'anglais (m)	English	le collège	secondary school
comprendre	to understand	ecrire	to write	l'allemand (m)	German	l'école primaire	
etudier	to study	lire	to read	l'espagnol (m)	Dpanish	la bibliothèque	library
rentrer	to come in/ back to school	partir	to leave	le français (m)	French	le déjeuner	lunch
encourager	to encourage	faire	to do	la géographie (f)	Geography	leçon	lesson
corriger	to mark	aller	to go	l'histoire (f)	History	bâtiment	building
commencer	to start	être	to be	l'informatique (f)	ICT	les toilettes	toilets
regarder	to watch/look at	avoir	to have	les maths (m)	Maths	devoirs	homework
expliquer	to explain	traduire	to translate	les sciences (f)	Sciences	contrôle/exame	en test/exam
jouer	to play	finir	to finish	la technologie (f)	DT	récréation	break(time)

Week 10		Week 11		Wee	k 12	Week 13		
Teac	hers	Time and Day		Education – Modal Verbs		Uniform - Equipment		
professeur	teacher	journée	day	On doit	You must	Un pantalon (m)	Trousers	
amusant/ennuyeux	fun/boring	temps	time	On peut	You can	Une veste (f)	A jacket	
gentil/strict	kind/strict	le matin/le soir	morning/evening	On ne peut pas	You cannot	Une cravate (f)	A tie	
intéressant/nul	interesting/rubbish	à midi/à minuit	at midday/at midnight	Je veux	Iwant	Unetrousse	A pencil case	
sympa/méchant	nice/mean	hier	yesterday	ll faut	You must	Des chaussures (f,pl)	Shoes	
drôle/travailleur	funny/hard- working	d'habitude	usually	Il ne faut pas	You must not	Un sac (m)	A bag	
compréhensif	understanding	tous les jours	everyday	Interdit	Forbidden	Un cahier/ Un stylo	A workbook/Pen	

1. Cell structure		3. Transport in cells			
	Function				
<u>Organelle</u>	Function	Diffusion is the spreading out of the particles of any substance in solution, or particles of a gas,			
Nucleus	Contains genetic material (DNA) which controls the cell's activities.	resulting in a net movement from an area of higher concentration to an area of lower concentration. Some of the substances transported in and out of cells by diffusion are oxygen and carbon dioxide in			
Cell mem brane	Surrounds the cell and controls movement of substances in and out.	gas exchange, and of the waste product urea from cells into the blood plasma for excretion in the kidney.			
Cytoplasm	Jelly-like substance where most chemical processes happen.	Factors which affect the rate of diffusion are:			
Mitochondria	Site of respiration, where energy is released from food molecules.				
Ribosomes	Site of protein synthesis.	the difference in concentrations (concentration gradient)     the temperature			
Cellwall	Supports & strengthens the cell, in plant cells it is made of cellulose.	the temperature     the surface area of the membrane.			
Chloroplast	Absorbs light energy so the plant can make food.	A single-celled organism has a relatively large surface area to volume ratio. This allows sufficient			
Vacuole	Contains liquid, and used to keep the cell rigid and store substances.	transport of molecules into and out of the cell to meet the needs of the organism.			
Cells may be specialised to carry • sperm cells, nerve cells and mu • root hair cells, xylem and phloe	uscle cells in animals m cells in plants.	In multicellular organisms, surfaces and organ systems are specialised for exchanging materials. This is to allow sufficient molecules to be transported into and out of cells for the organism's needs. The effectiveness of an exchange surface is increased by: • having a large surface area			
<ul> <li>Most types of animal cell difference</li> <li>Many types of plant cells retain</li> </ul>	ifferentiate to form different types of cells. entiate at an early stage. the ability to differentiate throughout life. s mainly restricted to repair and replacement. As a cell	<ul> <li>a membrane that is thin, to provide a short diffusion path</li> <li>(in animals) having an efficient blood supply</li> <li>(in animals, for gaseous exchange) being ventilated.</li> </ul>			
differentiates it acquires differen It has become a specialised cell.	t sub-cellular structures to enable it to carry out a certain function.	Water may move across cell membranes via osmosis. Osmosis is the diffusion of water from a dilute solution to a concentrated solution through a partially permeable membrane.			
microscope. This means that it c	ch higher magnification and resolving power than a light an be used to study cells in much finer detail. e and understand many more sub-cellular structures. (I) / size of actual object (A)	Active transport moves substances from a more dilute solution to a more concentrated solution (against a concentration gradient). This requires energy from respiration. Active transport allows mineral ions to be absorbed into plant root hairs from very dilute solutions in the soil. Plants require ions for healthy growth.			
2. Cell division		It also allows sugar molecules to be absorbed from lower concentrations in the gut into the blood which has a higher sugar concentration. Sugar molecules are used for cell respiration.			
	romosomes made of DNA molecules. Each chromosome carries a	4. Stem cells			
large number of genes. In body c	ells the chromosomes are normally found in pairs.	A stem cell is an undifferentiated cell of an organism which is capable of becoming other types of cells.			
Before a cell can divide it needs t ribosomes and mitochondria. The In mitosis one set of chromosom Finally the cytoplasm and cell me	material is doubled and then divided into two identical cells. to grow and increase the number of sub-cellular structures such as e DNA replicates to form two copies of each chromosome. les is pulled to each end of the cell and the nucleus divides. embranes divide to form two identical cells. ant in the growth and development of multicellular organisms.	Stem cells from human embryos can be cloned & made to differentiate into most different types of human cells. Stem cells from adult bone marrow can form many types of cells including blood cells. Meristem tissue in plants can differentiate into any type of plant cell, throughout the life of the plant. Treatment with stem cells may be able to help conditions such as diabetes and paralysis. Stem cells from meristems in plants can be used to produce clones of plants quickly and economically.			

5

C1 — Atomic Structure And The Periodic Table

1. Atoms	, mixtures an	dcompounds				4. Representing atoms			
All substances are made of atoms. An atom is the smallest part of an element that can exist. Atoms of each element are represented by a chemical symbol, e.g. O for oxygenor Na for sodium. There are about 100 different elements. Elements are shown in the periodic table. Compounds are formed from elements by chemical reactions. Chemical reactions always involve the formation of one or more new substances. Compounds contain two or more elements chemically combined. Compounds can only be separated into elements by chemical reactions.						Atoms can be represented as shown in this example: (Mass number) 23 (Atomic number) 11 The relative atomic mass (A <sub>r</sub> ) of an element is an average value that takes account of the abundance the isotopes of the element. The electrons in an atom occupy the lowest available energy levels. The electronic			
A mixture consists of two or more elements or compounds not chemically combined together. The chemical properties of each substance in the mixture are unchanged. Mixtures can be separated by physical processes such as filtration, crystallisation, simple distillation, fractional distillation and chromatography.					be separated by	structure of an atom can be represented by numbers or by a diagram. e.g. The electronic structure of sodium is 2,8,1 or showing two electrons in the lowest energy level, eight in the second energy level and one in the third energy level.			
2. History	of the atom					5. The periodic table			
Early mode	el	Tiny spheres that coul	d not be divided			The elements in the periodic table are arranged in order of atomic (proton) number and so that			
Electron di	ctron discovered Plum pudding model – atom was ball of positive charge with negative electrons spread around inside it				ith negative	The elements in the periodic table are arranged in order of atomic (proton) number and so that elements with similar properties are in columns, known as groups. The table is called a periodic table because similar properties occur at regular intervals.			
	ford and Marsden Plum pudding model is replaced with nuclear model – small central positive nucleus with negative electrons orbiting				all central	Elements in the same group in the periodic table have the same number of electrons in their outer she (outer electrons) and this gives them similar chemical properties.			
Niels Bohr		Electrons orbit at spec	cific distances			The early periodic tables were incomplete, and some elements were placed in inappropriate groups if			
Later expe	riments	Positive charge in nuc	leus can be subdi	/ided – protons		the strict order of atomic weights was followed. Mendeleev overcame some of the problems by leaving gaps (that were later filled) for elements that he thought had not been discovered and, in some places, changed the order based on atomic weights.			
James Cha	dwick	Discovers neutron							
	omic particle e electrical cha Name of partic	rges and relative masse	es of the particles	in atoms are:	7	Elements that react to form positive ions are metals and those that do not are non-metals. The majority of elements are metals. Metals are found to the left and towards the bottom of the periodic table. Non-metals are found towards the right and top of the periodic table.			
-	Relative charg		0	-1	-	The elements in Group 0 are called the noble gases. They are unreactive and do not easily form			
	Relative mass	1	1	Very small		molecules because their atoms have stable arrangements of electrons. The noble gases have eight electrons in their outer shell, except for helium, which has only two electrons. The boiling points going			
In an atom, the number of electrons is equal to the number of protons in the nucleus. Atoms have no overall electrical charge. The number of protons in an atom of an element is its atomic number. Almost all of the mass of an atom is in the nucleus. The sum of the protons and neutrons in an atom is its mass number. Atoms of the same element can have different numbers of neutrons; these atoms are called				ver. r.		down the group.         The elements in Group 1 are known as the alkali metals and have characteristic properties because of the single electron in their outer shell. They react rapidly with water and the reactivity increases going down the group.         The elements in Group 7 are known as the halogens and all have seven electrons in their outer shell. The further down the group the more the reactivity of the elements decreases.         A more reactive halogen can displace a less reactive halogen from an aqueous solution of its salt.			
		ing a radius of about 0. less than 1/10 000 of th		out 1 x 10 <sup>14</sup> m).		The transition elements are metals with similar properties which are different from those in Group 1. Many transition elements have ions with different charges, form coloured compounds and are useful as catalysts.			

6	History	World War O	ne	CY	CLE 2	Year 9
Section A Key Ter	ms	Section B – Causes of World War One	Section C – Women at War		Section D – Na Chronology	azi Germany
<ul> <li>later by the Otto (Turkey). Enemi Entente.</li> <li>Triple Entente Russia. They we the USA. Enemi Powers.</li> <li>Trenches Wher up in order to pu from the enemy stretched from Alps</li> <li>Propaganda Into promote a parti Propaganda po Britain to persu</li> <li>Colonialism – to of gaining politi military control countries.</li> </ul>	y. They were helped oman Empire ies of the Triple Britain, France and ere helped later by ies of the Central re the ground is dug rovide protection 7. The trenches the North Sea to the formation used to cular view or cause. sters were put up in ade men to fight the policy or practice cal, economic and over other	Imperialism European nations had been competing to have the biggest Empires for 100s of years. This is imperialism. Alliances Imperialism had made the Europeans suspicious of one another, and create alliances for their own protection. The Central Powers promised to protect each other if attacked. The Triple Entente did the same. These countries were now rivals. Race for Biggest Army (Arms Race) Rivalry led Germany and Britain to compete to have bigger armies and navies. They tried to build more warships than one another. Nationalism The arms race, alliances and imperialism all promoted nationalism – the feeling that your country and its people are better than other countries. Serb nationalism led to the creation of the Black Hand terrorist group. Assassination of Archduke Franz Ferdinand A Serb nationalist from the Black Hand terrorist group assassinated Franz Ferdinand, son of the Austro- Hungarian emperor. Austria-Hungary attacked Serbia, who was defended by Russia. This dragged Germany, France and Britain into the war because of their alliances.	<ol> <li>Women did work before wone, mainly in the textile ind more traditional roles such a teachers</li> <li>950,000 worked in ammut Some worked in Women's A Auxiliary Corps (WAAC), Woor Air Force</li> <li>80,0000 volunteered to tranurses, some on the frontline</li> <li>The first women police off employed</li> <li>Women still took care of f whilst men at war, although nurseries did begin to open</li> </ol> After the War <ul> <li>More women did experien freedom and confidence played in war</li> <li>Women lost new jobs as a home</li> <li>Those that still worked, stunequal pay</li> <li>Many women struggled to find due to high number of matwar</li> </ul>	ustries, or as nurses, nitions. rmy men's RAF ain as le ficers from role men came till had b look after bands in husbands ale deaths	27 <sup>th</sup> Feb 33 - R Hitler granted f arrest without 5 <sup>th</sup> Mar 33 - Ne ever result (44) 24 <sup>th</sup> Mar 33 - E now pass laws May 33 - Trade June 33 - Cond Catholic Churd Jul 33 - All othe banned May 34 - 'Peop 'political crime 29 <sup>th</sup> & 30 <sup>th</sup> Jun Knives – attack August 34 - De	emergency powers' to trial we elections. Nazi best %) nabling Act – Hitler can without Reichstag Unions taken over ordat' signed with ch er political parties ole's Courts' set up to try es' <b>e 34</b> - Night of the Long

Section E - Key Terms         Section F - Steps to Power         Section G - Propaganda         Section H - Key People           Aryan - German 'master race'; non- Jews of 'pure' German origin         People likely to vote for Hitler were farmers, wealthy businessmen, Nationalists and Middle Class,         13 March 1933, Ministry of Public Enlightemment and Propaganda created. Propagands includes Nawspapers, Radio, Rallice, Postrar, Sports events, Flim         Joseph Goebbels - Head of Propaganda, would also be involved in economic policies           Wilnetm Frick - Minister for the and persuade people to vote for Hitler weryone should be obedient to him 'bringing into line'. The Nazi policy of controlling synthing in society         O-condination or 'bringing into line'. The Nazi policy of controlling synthing in society         German people were angry about the Versailles. Freatry, the Economic depression of 1929, German businesses were bankrupt and unemployment was high         All Journalists forced to join the Reich Association of Press         By 1934 all radio cations became part offer him the role of Chancellor in January 1933         Net Reich Radio Company Radios played traditional folk music, or 'brais divertional folk music, or 'brais divertional folk music, or 's An - Stor troopers led by Rohm 's So - Intelligence Gathering 'Police and Courts - loyal to Nazis 'S An - Stor troopers led by Rohm 's Concentration camps_anyone who criticised the Nazis 'Deck Wardems - reported to Gestapo         Precised Receivers 'Deck Wardems - reported to commits, Hindenburg was persuaded to pass the Relichstag Emergency Decrees         Posters would use symbolism to emprecy operes, such as the 1936 Oympics would be used to demonstrate the strength and superiority of the Aryan Race         Non Nazi's 'President Von Hind	7 History		Nazi Germar	ıy	CY	CLE 2	Year 9
Jews of 'pure' German origin Anti Semitiam - Hatred of Jewsfarmers, wealthy businessem, Nationalists and Middle Class, Anti Semitiam - Hatred of JewsFramers, wealthy businessem, Nationalists and Middle Class, Nationalists and Middle Class, Spots events, Film By 1939 the Nazi's owned 2/3rds of all German newspapersPropaganda, would also be involved in economic policiesFuhrerprincip - The idea that Hitter has uttimate autority in Germany; everyone should be obedient to him3) German people were angry about the Versailles Treaty, the Economic depression of 1929, German businesses were bankrupt and unemployment was highAll Journalists forced to join the Reich Association of PressFirst Rohm - Leader of the SA, Hitler's private army Hermann Goring - Leader of the GestapoLebensraum 'Living Space'. The Nazi believed this should come from invading eastern Europe. Later it justified exterminating the non-Aryans thereP) hoping Hiter could unite the government, Von Papen and Hindenburg used Emergency Powers to offer him the role of Chancellor in Janary 1933Pater Space Classics such as WagnerRudolph Hess - Deputy Leader of the Nazi Party• The SS - Hitler's personal bodyguards, led by Himmler • Gestapo - secret police7) The Reichstag Fire, 27 February gave Hitler an opportunity to blame the Communists, Hindenburg was persuaded to pass the Reichstag Emergency DecreesPosters would use symbolism to emphasis inportant messages to the key groups of people such was women, workers, youngPresident Von Hindenburg - President of the Weimar Republic, had special emergency powers, und at popeal to the Reichstag allowing Hitler to pass laws without having to appeal to the Reichstag destroying the de	Section E – Key 1	Terms	Section F – Steps to Power	Section G - Propaganda		Section H – Ke	y People
	Jews of 'pure' Ge Anti Semitism - H Fuhrerprincip - Th ultimate authorit everyone should <b>Gleichschaltung</b> 'bringing into line controlling everyt <b>Lebensraum</b> 'Living Space'. Th should come from Europe. Later it juthe non-Aryans th • <b>The SS</b> - Hitle bodyguards, le • <b>Gestapo</b> – sec • <b>SA</b> – Storm tro • <b>SD</b> – Intelligen • <b>Police and Co</b> • <b>Concentratio</b> who criticised • <b>Local Warder</b>	erman origin Hatred of Jews he idea that Hitler has cy in Germany; be obedient to him g - Co-ordination or e'. The Nazi policy of thing in society he Nazis believed this minvading eastern ustified exterminating here er's personal ed by Himmler cret police popers led by Rohm hee Gathering <b>purts</b> – loyal to Nazis <b>on camps</b> –anyone I the Nazis	<ul> <li>farmers, wealthy businessmen, Nationalists and Middle Class,</li> <li>2) SA are used to intimidate opponents and persuade people to vote for Hitler at ballot box</li> <li>3) German people were angry about the Versailles Treaty, the Economic depression of 1929, German businesses were bankrupt and unemployment was high</li> <li>4) Hoping Hitler could unite the government, Von Papen and Hindenburg used Emergency Powers to offer him the role of Chancellor in January 1933</li> <li>7) The Reichstag Fire, 27 February gave Hitler an opportunity to blame the Communists, Hindenburg was persuaded to pass the Reichstag Emergency Decrees</li> <li>8) The Enabling Act in March 1933, allowing Hitler to pass laws without having to appeal to the Reichstag, destroying the democratic process</li> <li>9) Hitler uses powers to ban political</li> </ul>	Enlightenment and Propagan created. Propaganda include Newspapers, Radio, Rallies, I Sports events, Film By 1939 the Nazi's owned 2/3 German newspapers All Journalists forced to join t Association of Press By 1934 all radio stations beco of Reich Radio Company Radios played traditional folk Classics such as Wagner By 1939 70% of Germans had their home called Peoples Re Posters would use symbolism emphasis important message key groups of people such wa women, workers, young Sporting events such as the 1 Olympics would be used to demonstrate the strength and	ada as Posters, Brds of all the Reich came part came part came part d a radio in eceivers n to es to the as 1936 d	Propaganda, w economic polic Wilhelm Frick Interior, overall aspects of life i Ernst Rohm – L private army Hermann Gorin Gestapo Rudolph Hess Nazi Party Heinrich Himm Hitler's elite gu Non Nazi's President Von of the Weimar L emergency pow pass laws to prination, but cou appoint Chanc Von Papen – M Democrat Party	ould also be involved in cies - Minister for the responsibility for most n German Society Leader of the SA, Hitler's ag – Leader of the - Deputy Leader of the <b>nler</b> – Leader of the SS, ard <b>Hindenburg</b> – President Republic, had special vers, under Article 48, to otect the German Id also dismiss or ellors ember of the Social y and previous

8

The Future

Week	Кеу	Knowledge to learn
2 – Future Misconception s and The Future of the EU	<ul> <li>Future Misconceptions</li> <li>In all LICs across the world today, 60% of girls finish primary school</li> <li>Majority of the world live in NEEs</li> <li>In the last 20 years, the proportion of the world population in extreme poverty has almost halved</li> <li>The average life expectancy is the world is 70 years</li> <li>80% of the worlds 1-year old children today have been vaccinated against some disease</li> <li>80% of people in the world have some access to electricity</li> </ul>	<ul> <li>European Union - a group of 27 countries following similar laws à the UK left the EU on the 31<sup>st</sup> January 2020 (BREXIT)</li> <li>1957 - The European Economic Community (EEC) is created. The member countries are Belgium, France, Italy, Luxembourg, the Netherlands, and West Germany. The group aims to remove trade barriers and form a common market.</li> <li>The objectives of the European Union are to establish European citizenship, ensure freedom, justice and security, promote economic and social progress, and assert Europe's role in the world. The capital of the European Union is Brussels, Belgium.</li> </ul>
4 – Brexit and Problem with Energy	<ul> <li>Reasons for Leaving the EU</li> <li>We get control over all laws created</li> <li>We get control over immigration within the EU</li> <li>Don't pay £50 million a week membership fee</li> <li>We may have to pay to enter EU countries</li> <li>Goods imported to the UK may become more expensive</li> <li>We would set our own taxes</li> <li>More low paid jobs available</li> <li>We can decide who we trade with</li> <li>We won't have limits set on us like how much fish we can take from the sea.</li> </ul>	<ul> <li>Problem with Energy</li> <li>In the past, the UK was heavily reliant on fossil fuels such as coal, oil and gas.</li> <li>It is projected that in the future we will use more renewable energy.</li> <li>Energy supply and demand has increased overtime due to increase use of transport and industry.</li> <li>Carbon Footprint = The amount of carbon dioxide released into the atmosphere as a result of the activities of a particular individual, organization, or community.</li> </ul>
6 – Solving the energy problem and the problem with food	Solving the energy problem Energy Consumption - The amount of energy or power used Renewable Energy - is naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat Examples of Renewable energy include: Solar, Hydroelectric power and wind power	<ul> <li>The Problem with Food</li> <li>Malnutrition - lack of proper nutrition, caused by not having enough to eat, not eating enough of the right things.</li> <li>1 billion in 2012 are hungry in the world which means 1 person out of 7.</li> <li>Our planet has enough food so hunger shouldn't exist.</li> <li>Bolivia, Democratic Republic of Congo and Ethiopia are struggling with hunger though they have lots of food and mostly work in agriculture. These countries have the highest rate of malnutrition. 41% of Ethiopians are undernourished.</li> <li>60% of people globally that are hungry tend to work in farming.</li> <li>USA has lower rates of hunger and they struggle with obesity.</li> </ul>

9	Geography	The Future		CYCLE 2	Year 9
Week		Key Knowledg	e to learn		
8 – Solving the problem of Food and the Plastic Crisis	to combat such is animal welfare conce <b>Insects as a food s</b> Some countries ha thing for example, insects as part of th	npanies are beginning to produce meat in labs as a way sues as greenhouse gases emissions, overfishing and rrns. They use stem cells to produce this meat	<ul> <li>then, annua</li> <li>381 million</li> <li>to the mass</li> <li>With the large plastic, at ne</li> </ul>	world produced only 2 million l production has increased no tonnes in 2015. For context, t of two-thirds of the world pop gest population, China produce arly 60 million tonnes. This was million, Germany at 14.5 millio	early 200-fold, reaching his is roughly equivalent pulation. d the largest quantity of s followed by the United
10 – Causes and Impacts of Plastic	of the world. Howev operations are usual they also often get to It is Overused - As pl and overused item in not decompose easily Disposing of Plasti is nearly impossible incredibly toxic and	mercial fishing is an economic necessity for many parts er, the nets used for certain large-scale trolling lly made of plastic. These leaking toxins at will, but	Impacts of Pla ✓ It Upsets the ✓ Groundwate ✓ Land Pollution ✓ Air Pollution ✓ It Kills Anim ✓ It is Poisono ✓ It is Expens	e Food Chain er Pollution on als	
12 – HS2	The £2-£3bn annual The environmental i tunnels' and plantin The costs of HS2 con was forecast to cost soar to over £100bn	London to Birmingham will be less than one hour. capital investment will help create jobs mpact will be mitigated by 'green ng of trees cinue to rise. Initially, in 2015, the project 256bn but could now the total cost could nger numbers are uncertain	of investment a Regeneration - a period of decl Examples of how Broadway Shop	is the deterioration of the inn nd maintenance. means improving an area t	that has been experiencing red are as follows: The ation into flats; Plans for a

10

English

	Day A. Chakaanaara		Payl	P. Stogo aroft /Dlove	1
Stage	Box A: Shakespeare this is an instruction in the text of a	The Dist		B: Stagecraft/Plays	
directions	play indicating the movement, position, or tone of an actor, or the sound effects and lighting	The Plot	The plot is the overarching story that links the events together to tell the audience what, when and how things are happening. There can sometimes be more than one plot entwined in the story.	Flashforwards /Flashbacks	Playwrights sometimes use flashbacks to give an insight to a particular moment or character to provide context or highlight something specific. Flashforwards are used to increase tension and make the audience question how the characters end up there.
Aside	remarks made by characters which only the audience can hear	Drama	Plays need to have drama to be successful. They need to include dramatic moments/events or characters to be effective.	Props	Props are physical items used within a play to visually convey an event, emotion, topic or to show the audience the effect of these. E.g. The Gun in Blood Brothers)
Soliloquy	where a character speaks their thoughts aloud to the audience	Rhetoric	The use of rhetoric is important as it helps us understand character's	Context	Crucial information around what is happening when the playwright is writing
Patriarchy	a society or organisation where men are more powerful. In Jacobean society, fathers or later husbands saw women as a possession.	Character	personalities and what they are trying to inform or persuade us about/to do or think. Analysis of- why, when and how	The Playwright	the play. This information shapes the play as often the events and characters of the play are vehicles for the playwrights' thoughts, opinions and ideologies. Analysing the playwright is as crucial as
Hierarchy	The uneven distribution of power where a small number of people hold the majority of the power	Analysis	the character does something, what they represent and how they interact with their environment or other characters.	The Flaywright	analysing the play. Once we learn why they have written the play we gain an important understanding of the characters and events and why they have been included (links to context).
Great Chain of Being	The Great Chain of Being is like a ladder that shows the importance of everything in the world. The hierarchy of the Great Chain of Being starts with God at the top, followed by angels, humans, animals, plants, and non- living things.	Dialogue	Speech between the characters or potentially to themselves (see Box A). usually, this dialogue helps us understand the relationship between the characters and also with the tone and even class of the characters speaking.	Tone and Pace	Tone is the 'feeling' of the work, this is built through a characters actions, stage directions and events. Tone is how the play feels as we read it and helps us understand the emotions at the time. Pace is the 'speed' of the writing and is built through sentence lengths, types and punctuation. It helps us with things like tension and atmosphere.
Jacobean Era	The literary and artistic period marked by the rule of King James I (1603- 1625)	Setting	Setting is the physical setting of the play. This includes time period, dates, what building/room and also weather.	Themes	The themes within the plays are vital as this helps us understand the big ideas and core messages of the text. This can include topics such as violence, gender, class and conflict.

11	English Narrative W	riting. Key The	mes	and Essay Vocabulary	CYCLE 2	Year 9		
Bo	ox C: Narrative Writing			Box D: Ky G	othic Themes			
-	Symbolism is when something in a story	Atmosphere		A mood of mystery, suspense,	and foreboding that enve	lops the narrative.		
	(like an object, character, or event) stands for a bigger idea or meaning.							
	Speech to support understanding and	Monsters		These are the use of creatures	such as Vampires. Werev	volves etc. to create an		
-	mood.			antagonist or danger within the	•			
	Creating a setting that reflects the	Isolation		A feeling of being alone or cut		despair and madness.		
-	characters mood and decision							
	making.							
Character/s	Building complex and vivid characters	Supernatural		Elements beyond the natural v	vorld, including ghosts, m	nonsters, or otherworldly		
	to carry the story forward.			beings.				
Point of View	Using a perspective to that best	Melancholy		A deep, persistent sadness, of	ten reflected in character	rs and settings.		
	conveys the mood of the characters o	r						
	setting.	_						
Stream of	Using the thoughts and feelings of the			Characterized by pointed arch	es, ribbed vaults, and flyi	ng buttresses, creating a		
	character to drive the narrative	Architecture		sense of grandeur.				
	forward.							
	Using the 5 senses to create imagery			Box E: Essa	y Vocabulary			
	for the reader.			• • • • • • • • • • • • • • • • • • • •	····			
-	Creating a feeling that something is	First and		irst thing you want to convey w	ithin your argument-usua	ally your most important		
	going to happen.		ľ	t or idea.				
	Either linear (in time order) or non-	Suggests		g the text/evidence this tells yo	-			
	linear (using flashbacks, forwards, changes in time)		Ins	is used when analysing eviden	ce and expressing what u	ns could mean.		
	Creating a 'feeling' of the text.	Implies	Suga	ests or indicates something wi	thout directly stating it Ir	an essay this term is		
	Specifically, the setting/ characters.	imptioo		when discussing how a text or		-		
Atmosphere				_		_		
	A motif is something you notice being			I to introduce an additional poi	• • • •	•		
	repeated in a story which links to a		r.	ous one. It signals that more ev	vidence or reasoning is be	eing added to strengthen		
	bigger idea. E.g. Light and dark could be	Moreover	the c	e case.				
	motifs for good and evil.	In contrast	ln co	ntrast is helpful when you wan	t to provide an alternative	thought or opinion or		
			intro	duce a new text or source. This	would be used to compa	are the differences		
			betw	een those texts or sources.				
Framed Narrative	A narrative within a narrative.	Similarly	This	is when you are comparing the	similarities between two	texts or sources and		
			bring	ing in the second text or sourc	e to compare it to the firs	t		

12	2 Spellings					Year 9
Week 1	Week 2	Week 3	Week 4		Week 5	
1 squalor	1 usurn	1 serenity	1 stoon		1 symb	ol

1. squalor	1. usurp	1. serenity	1. stoop	1. symbol
2. inane	2. prophetic	2. summit	2. confound	2. interested
3. self-effacing	3. scarcity	3. picturesque	3. desperately	3. pretence
4. reproach	4. charismatic	4. distinguished	4. tormenting	4. euphoria
5. contemporary	5. tyrant	5. peripheral	5. pedantic	5. thrilled
6. pillage	6. transient	6. erratic	6. coherent	6. glib
7. noteworthy	7. predilection	7. duplicity	7. eccentric	7. flimsy
8. languish	8. interrupt	8. linger	8. expedite	8. habitat
9. blissful	9. subterranean	9. predominantly	9. initiate	9. medley
10. divulge	10. depraved	10. compel	10. adjacent	10. formidable
Week 6	Week 7	Week 8	Week 9	Week 10
1. atrocious	1. impromptu	1. furtively	1. litigation	1. phalanx
2. forge	2. equipment	2. instructive	2. substantiate	2. latter
3. pitfall	3. adulation	3. because	3. adopt	3. buttress
4. bray	4. seldom	4. sarcastic	4. munificence	4. erroneous
5. discredit	5. detain	5. inference	5. paradox	5. conclusion
6. misspent	6. amusing	6. culpable	6. mitigating	6. tranquility
7. uncaring	7. sundry	7. despised	7. assented	7. contagious
8. sanctimonious	8. quiver	8. divine	8. plagiarise	8. category
9. artful	9. indifferent	9. sociable	9. betray	9. effigy
10. protagonist	10. slope	10. slacken	10. antiquity	10. conceivable
Week 11	Week 12	Week 13		
1. vilify	1. homophone	1. imperious		
2. trite	2. spontaneity	2. detached		
3. oath	3. punitive	3. introvert		
4. reticent	4. concentrated	4. deterrent		
5. estimate	5. whinging	5. disdain		
6. complaisant	6. helix	6. disturbing		
7. turmoil	7. embarrass	7. absolution		
8. inopportune	8. fertile	8. diligence		
9. vacillate	9. reverence	9. unite		
10. public	10. anarchist	10. remnants		

13	Maths		CYCLE 2	Year 9			
BOX 1: No	on-calculator Methods an	d Percentag <u>es</u>			PERCENTAGE	E CALCULATIONS	
SURDS		INDEX N	OTATION		Multiplier	A percentage written as a <b>decimal.</b> You can then use multiplication to	
Surd	An <b>irrational</b> number that is a <b>root</b> of a whose value cannot be determined exa Surds have infinite non-recurring decim	rmined exactly. <i>a is the Power.</i>			find the percentage.		
	e.g. √2				Percentage increase	Adding a percentage to the original amount.	
Rational Number	An <b>integer</b> , <b>terminating decimal</b> or <b>red</b> (can be negative). They can be represented as fraction in t	he form $\frac{p}{q}$ .		Base Power	Percentage decrease	<b>Subtracting</b> a percentage from the original amount.	
Irrational Number	where p and q are integers and $q \neq 0$ . Any number that is <b>not rational</b> . It has a of decimal places, that <b>don't repeat</b> . <i>E.g.</i> $\pi$ , $\sqrt{3}$	an <b>infinite</b> number <b>DIVISIC</b> When the	DIVISION		Percentage Change	The change between the old value and the new value as aDifference $Original$ 100	
SURDS: LAWS			MultiplyingAdd the powersE.g. $a^m \times a^n = a^{m+n}$		Reverse	percentage Working <b>backwards</b> to find	
Multiplying Su	rds $\sqrt{ab} = \sqrt{a} \times \sqrt{b}$ Special case: $\sqrt{a} \times \sqrt{a} = a$				Percentage	100%	
Dividing Surds	$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$	Dividing		<b>Subtract</b> the powers <i>E.g.</i> $a^m \div a^n = a^{m-n}$	Simple Interestc	Interest calculated as a percentage of the original amount, so the <b>same amount</b> is	
Simplifying su	rds Using <b>square number</b> factors to ge	t the smallest Raising	a power by	Multiply the powers	Exponential	added each year.	
Rationalising t			SPECIAL POWERS			When we multiply a number <b>repeatedly</b> by the same number	
denominator	writing an equivalent fraction (usua the numerator)		Anythin	g to the power of 0 is <b>1</b>		( <b>more than</b> 1), so it <b>increases</b> by the same proportion each time.	
STANDARD FO	STANDARD FORM: NOTATION		p <sup>1</sup> Anything to the power of 1 is <b>itself</b>		Compound	An example of exponential growth. Interest paid on the original amount and the accumulated interest, so each year a <b>larger</b>	
Allows us to write very large or very small numbers without lots of zeros. Numbers written in the form <b>A x 10</b> <sup>n</sup> . A is between <b>1 and 10</b> .		ut lots of zeros. Negativ indices	Negative indices Reciprocal E.g. $a^{-m} = \frac{1}{a^m}$		- Interest		
N is any <b>intege</b>	Large number (≥ 1)		Fractional indices Root. E.g. $a^{\frac{1}{n}} = \sqrt[n]{a}$ The power $\frac{1}{2}$ = square root. The power $\frac{1}{3}$ = cube root			amount of interest is paid. <b>R = A x M<sup>n</sup></b> R is the end value. A is the starting value. M is the multiplier. n is the number of years.	
'n' is negative	Small number (< 1)						

14	Maths						CYCLE	2 Y	ear 9	
BOX 4: De	eduction	ANGLE RU	LES				TRANSFORM	ATIONS		
TYPES OF ANGLE Angles arou		und a point	Ade	Add to <b>360°</b> (as they make a full turn)		Congruent	When two shapes are <b>exactly the same</b>			
Angle	A measure of <b>turn</b>	Angleson	a straight line	Add	d to <b>180°</b>			shape and size, but car orientations	be in different	
Acute Angle	An angle less than 90°	Vertically o	pposite angles	Are	equal		Rotation	To turn a shape.		
Right angle	90°	Angles in a	triangle	Add	d to <b>180°</b>		notation			
Obtuse Angle	An angle between 90° and 180°	Angles in a	quadrilateral	Ado	d to <b>360°</b>			The shape does not change size ( <b>congruent</b> )		
Straight line	180°		N PARALLEL LIN	ES						
Reflex Angle	An angle between 180° and 360°				. el			To rotate a shape you n rotation, the number o		
A full turn	360°	Alternate a	•	Are equ				turn, and a <b>direction of</b>	turn (clockwise	
Links to: PARALI	LEL LINES	Co-interior	ding angles	Are equ			or a nticlockwise) Invariant Points on a line or share		which <b>do not</b>	
	s with the <b>same gradient</b>	Co-Interior	angles	angles Add to <b>180°</b>			points	move when a specific tra	a specific transformation is	
Lines They never meet.			ANGLES IN POLYGONS				applied			
They are always the <b>same distance</b> apart.			Triangle	3 sides	Interior angles	Exterior angles	Translation	Translate means to <b>mo</b>	<b>/e</b> a shape.	
ANGLES IN PO	DLYGONS: FACTS				add to <b>180</b> °	add to <b>360°</b>		The shape does not change size		
Polygon	A <b>2D shape</b> with 3 or more <b>straig</b>	<b>it</b> sides only.	Quadrilater al	4 sides	Interior angles add to <b>360°</b>	Exterior angles add to <b>360°</b>		( <b>congruent</b> ). To translate a shape you need a <b>vector</b>		
Regular polygo	n A polygon with <b>sides</b> that are all <b>eq</b> that are all <b>equal.</b>	ual and angles	Pentagon	5 sides	Interior angles add to <b>540</b> °	Exterior angles add to <b>360°</b>				
Interior angle	An angle <b>inside</b> a polygon		Hexagon	6 sides	Interior angles add to <b>720</b> °	Exterior angles add to <b>360°</b>	Links to: VECTORS			
Sum of interior				7 .:		Fotonian angles	Vector	A quantity which has <b>magnitude</b> and		
angles	Where n is the number of sides		Heptagon (or	7 sides	sides Interior angles Exterior angles add to 900° add to 360°		direction. It defines a moveme		<b>t</b> from one point	
Exterior angle	The angle formed <b>outside</b> a	/	Septagon)					to another.		
	polygon when <b>one side is</b> extended. Interior angle + exterior angle = <b>180</b> °, because they made a		Octagon	8 sides	Interior angles add to <b>1080</b> °	Exterior angles add to <b>360°</b>	Column Vector (in 2D)	The top number ( <b>x</b> ) m right (+). The bottom number ( <b>y</b>		
	straight line.	۲	Nonagon	9 sides	Interior angles add to <b>1260°</b>	Exterior angles add to <b>360°</b>		down (-).		
Sum of exterior angles	- 360°		Decagon	10 sides		Exterior angles add to <b>360°</b>		e.g. $\binom{3}{2}$ means a <b>movement</b> of 3 right and 2 up	$\binom{3}{2}$	

	15	RE	Muslim Belie	fs		CYCLE 2	Year 9	
		Кеу	Knowledge to learn			Key Knowledge to learn		
<ol> <li>I. – Is lamic beliefs: Sunni and Shia history</li> </ol>	<ul> <li>Sunnis believe that there were only four Caliphs after the Prophet Muhammad</li> <li>Sunni Muslims call these the "Rightly Guided Caliphs"</li> <li>Many Shi'a Muslims believe there are twelve Imams who are the successors to the Prophet Muhammad</li> <li>Sunni Muslims make up the majority of British Muslims</li> <li>The first belief is Tawhid, this means a belief that God is one. Another word for this</li> </ul>				<ul> <li>This is celebrated by Sunni and Shia Muslims on the tenth of the month of N but for different reasons. Ashura means "tenth".</li> <li>Sunni: remembers Prophet Musa fasting on this day to remember the saving Israelites from the Pharaoh in Egypt.</li> <li>Shia: Remembers the death of Hussein, the grandson of the Prophet, who w the battle of Karbala on this date in 680CE. Yazid was unjust and kept slaves had refused to be led by him, and was imprisoned in Karbala and killed.</li> <li>Sunni: Many see it as a Day of Atonement, when sins are forgiven and reper Many fast on the 8<sup>th</sup>-10<sup>th</sup> of Muharram.</li> <li>Shia: this is a festival of sincere sorrow and sadness. Many wear black as a si Mosques are covered in black cloth. After prayers in the afternoon, poems a tragedy of Hussein are read.</li> </ul>			
2. Is lamic Beliefs: Six beliefs of Islam	<ul> <li>The third b final perfect recognise the include the Gospels.</li> <li>The fourth left every human awarded a</li> </ul>	d belief is Malaikah, th elief is in the authorit et message received for the importance of oth e scrolls of Abrahan belief is Nubuwwah ar ief is the belief in the an will be judged by A place in al-Jannah (Pa	is means a belief in the existence of angels y of Holy Books. The Qur'an is believed to be the orm Allah by the Prophet Muhammad. Islam also er holy books of Judaism and Christianity. These n and Moses, the Torah and Psalms and the nd Risalah which means belief in prophets Day of Judgement. The whole world will end and llah on their actions. Allah will decide who will be aradise) or Jahannam (Hell) the belief in predestination. Which means that	5 Key Belief: Tawhid and S 112	<ul> <li>Absolute; None is born</li> <li>Muslims believe Allah i</li> <li>They will only worship so they will not make i worship them instead</li> <li>Muslims believe Allah i</li> </ul>	an says "He is Allah, the One and C n of Him, nor is He born; And there is eternal and unique, with no par Allah, and no image or saint or ot images of Allah or the Prophet Mu of Allah (this is the sin of shirk whi is not split into different persons i is completely one and cannot be	e is none like Him." ents, partners or children her item is worthy of worship, hammad because they might ich is the worst sin in Islam) n the way Christians see God as	
2. Islan	although h The Six beli The Six be ummah	umans have free will, , lefs are found in the "k liefs unite all Sunni	Allah knows what will happen (ita al-inam" (book of faith) Muslims in one community which they call the		<ul> <li>benevolence, mercy, "</li> <li>Some believe He is bo understand, because "</li> </ul>	ies such as immanence, transcend fairness/justice, omniscience, liste oth immanent and transcendent ir the Qur'an says he is both	ed in his 99 glorious names a way that we cannot	
3.Islamic beliefs: The Five Roots	<ul> <li>The first ro</li> <li>The second bad</li> <li>The third is</li> <li>The fourth successor</li> <li>The 5<sup>th</sup> is resurrection</li> <li>The five ro</li> <li>Sunni and Judgement</li> </ul>	oot is Tawhid, this meand is 'Adl which means s Nubuwwah which means is Imamah which means s to the Prophet s Mi'ad which mean on of the body. ots unite al Shi'a as a l Shi'a agree in ideas t	a shift a busines failing ans a belief that God is one. That God commands them to do good and avoid eans belief in prophet hood means there 12 imams appointed by Allah as s a belief in the Day of Judgement and the community as they all believe in them. a such as Tawhid, prophethood and the Day of o specifically believe in the 12 Imams	6. Key Belief: The nature of A	<ul> <li>"closer to you than yo</li> <li>Since the Qur'an teach will know Allah under fairly on the Day of Ju Therefore they will try accountable for every</li> <li>Believing that God is f happens as part of a t</li> </ul>	scendent but <b>knows</b> everything the bur jugular vein" without being phe sches that Allah is "closer to you that restands everything they do and whe udgement and send them to heave y to live how Allah wishes because y action and none escapes his noti fair, loving and omnipotent means test and trust that he has a bigger the right thing for them, otherwis	ysically close/immanent on your jugular vein", Muslims y they do it so he will judge on or hell accordingly. I they know they will be held ce. Muslims see everything that plan for them; this may involve	