YEAR 9 SUMMER ASSESSMENTS REVISION BOOKLET

NAME:		
IVAIVIL.		

Tutor groups: O9G,P9G, T9G (Spanish)

Write your name on the booklet.

Look after the booklet carefully. Bring it to school every day and take it home with you.

This booklet contains checklists for English, Maths, Science, Geography, History, Spanish, RE and Computer Science. There is revision material for you to learn with each checklist, except for Maths.

Maths have made practice papers for you but these are on line. If you need a paper copy please tell your Maths teacher, Mr Green or Ms Woolf.

There is extra revision material on the website.

On the inside cover there is a revision planner for you to plan out your revision.

You will have assessments in PE, Music, Drama or Dance and Art or DT. These assessments will be practical.

Year 9 Assessments will take place at the start of the Spring Term on Monday 10th June.

You need to start revising now.



Year 9 English Independent Learning Revision

Homework	Set	Due wb	Task and pages
1	15/04/24	22/04/24	Create a character comparison chart for That Hate U Give
2	22/04/24	29/04/24	Annotate a key scene from That Hate U Give
3	29/04/24	06/05/24	Mind map Starr's internal conflict within That Hate U Give
4	06/05/24	13/05/24	Create a Venn diagram for characters within <i>That Hate U Give</i>
5	13/03/24	20/05/24	Write a critical reflection of That Hate U Give
6	20/05/24	03/06/24	Note the literacy devices <i>That Hate U Give</i> uses
7	03/06/24	10/06/24	Respond to the <i>That Hate U Give</i> in a

Please also remember to check Seneca Learning for revision tasks to complete for the examinations











vocabulary, and writing brief annotations in the margins. Focus on understanding the author's craft and the scene's contribution to the story.

Create a Power Dynamics Timeline: Research and list the different social
institutions and groups in the story (police, school, media, gangs). Create a timeline
tracing how these groups hold power and influence throughout the story. Use visuals
like lines, arrows, and symbols to represent power dynamics and their shifts.











Connecting to the World: Research current events or historical figures that relate
to the themes explored in the book. Create a presentation or infographic comparing
and contrasting these events/figures with the story, highlighting the ongoing fight for
social justice.











devices like metaphors, similes, and symbolism. Identify specific examples, analyse their effect on the story, and explain how they contribute to character development or theme exploration.

Character Motivation Analysis: Choose a complex character (e.g., Officer Liske,
Mr. Starr) and analyse their motivations throughout the story. Consider their actions,
dialogue, and interactions with other characters. Write a short analysis explaining
their motivations and how they evolve throughout the narrative.











YEAR 9 – Injustice and Resistance

How do writers across time explore relationships?			10
Key Vocabulary and Terminology – Can you define the words? Can you use them in a sentence?	0	(1)	8
I know the key themes of the text			
I know the historical context of the text			
I can define all of the key vocabulary and terminology from the knowledge organiser			
I can use all of the key vocabulary and terminology in sentences			
I can explain how all of the key vocabulary and terminology relates to the texts I have studied this term			
Key Skills – Can you do these in your written work?	0	(2)	8
I can make a detailed point about a character			
I can select and embed evidence from a text to support my points			
I can explain what evidence denotes (what it means in a literal sense)			
I can make inferences using evidence, and offer multiple interpretations using connectives such as 'furthermore' and 'however'			
I can explain what a writer's choice of words/phrases suggests, and what ideas it gives the reader about a character or place			
I can identify language techniques that a writer has used, and give multiple interpretations about their effect/meaning			
I can use context to explain the characters' decisions, and the writer's big ideas/themes/messages			
Key Literacy – Can you use these sentence structures in your writing?	0	⊕	8
The writer presents as			
We see this in the phrase, ""			
This could suggest/ imply/convey/illustrate / demonstrate / highlight / that			









The Hate U Give- Knowledge Organiser

		The nate o give- Milowledge organiser		
1. Context		3. Central Themes/Big Ideas	5. Key Terminology	
Genre: Young Adult, Social BI	BLM: The BlackLives Matter movement is a major inspiration	Designary and Delice Desirelise.	Characterisation	The creation or construction of a fictional character, through physical appearance, behaviour, clialogue, setting etc.
ism, Police brutality, latter	driving the novel's plot. Starr witnesses the fatal police shooting of her friend Khail an event mirroring	nation and rollice brutainty: The novel confronts the devastating impact of systemic radism, exemplified by the unjust killing of Starr's friend Khalil by a police officer.	Social Realism	depicts everyday struggles to critique social conditions.
5261	the tragedies that sparked BLM protests.	Identity and Code-Switching:	Narrative	A series of events that make up a story with a beginning, middle and end
ir friend's senseless ig George Floyd's "I	Kace: Ine book starkly portrays systemicra dismand its effect on Starr's life. She navigates radial	Starr navigates the divide between her black neighborhood and predominantly white prepschool, constantly shifting how she speaks and acts to fit in. The Power of Voice:	Contrast	Different ideas/objects/characters placed near each other to highlight the ways in which they differ
pr Code-switching between your er neighborhood and school Bl	prejudice in her prep school environment and the injustices her Black community faces.	Starr discovers her voice in the wake of tragedy, using it to speak out against injustice and demand	Social criticism	A genre of fiction that seeks to highlight the problems in society, and call for change
nding	Protests: Starr becomes involved in protests demanding justice for Khalil. These protests reflect the real-world	Family and Community: The novel highlights the importance of family and community as sources of support and strength when Starr faces adversity and confronts systemicinjustice.	Bildungsroman	Bildungsroman is a genre of novel that shows a young protagonist's journey from childhood to a duithood (or immaturity to maturity),
வ. ப்	BLM demonstrations that challenge police brutality and demand racial equality.		Flashback/forward	Affashback is a scene that takes place before a story begins. Flashbacks interrupt the chronological order of the main narrative to take a reader back in time to the past events in a character's life.
2. Key Characters		4. Thematic Vocabulary	Focaliser	A character through which the story is told, and whose perspective the story is told from
			Changing narrative	Characters are assigned a narrative perspective that is
Starr Carter:		Code-switching: Changing language/behavior to fit different social contexts.	perspective	different from the one originally used by the writer.
The protagonist, a 16-year-old navigating two worlds and witnessing her	g two worlds and witnessing her	Systemic Racism: Prejudice embedded in institutions, creating disadvantage for certain groups	Dramatic irony	Dramaticirony occurs when the audience or readers know more about a situation than the character does.
friend's unjust death. Khalil Harris: Starr's childhood friend, traeically killed by a police officer	erically killed by a police officer	Stereotype: Oversimplified and often harmful generalization about a group. Antisism Windian promote contra or malitical phone.	Proleptic irony /foreshadowing	Proleptic irony occurs when an earlier event gives the audience a clue ("foreshadows") a later event in the play.
during a traffic stop.		Privilege: Unearned advantage based on race, class, or other factors.	Narrative voice	Narrative voice is the perspective the story is told from.
Maverick "Big Mav" Carten: Starr's father, a former gang member, strong influence and source of guidance.	r, a former gang member, strong	Implicit Bias: Unconscious stereotypes influencing actions and decisions.	Homodiegetic	A narrator who is a loo a character in the story - often an
Lisa Carter: Starr's mother, devoted and protective, ensuring her children have a brighter future.	protective, ensuring her children	Intersectionality: Overlapping systems of oppression (race, gender, class, etc.). Allyship: Supporting marginalized groups through actions and advocacy.	narrator Change in pace/tone	unreliable narrator An author may speed up or slow down a narrative using action-packed scenes, long descriptions, dialogue etc. They
Uncle Carlos: Starr's uncle, a police officer offering a different perspective on	er offering a different perspective on	Resillence: Strength to overcome adversity and fight for justice.	Suspense	may also choose to vary the tone The sense that something dramatic is about to happen
law enforcement.	the state of the s	Injustice: Unfair treatment or violation of rights.	Exposition	Giving the reader new information about a
Chris: Starr's boyfriend from her prep school, supportive but initially struggles to understand her experiences.	nool, supportive but initially	Protest: Collective action to demonstrate disapproval and demand change. Empowerment: Gaining the power to speak out and create change.	Withholding Information	character situation When the writer holds some information back from the reader e.g. who is kidnapping the children
		Accountability: Holding those in power responsible for their actions.	Motif	A recurring image or idea
		Hope: Belief in the possibility of a better future.		



Year 9 Maths Independent Learning Revision

	-11-		
Homework	Set	Due wb	Task and pages
1	15/04/24	22/04/24	Complete and mark unit tests 1 and 2. These can be found on the school website. Follow the link provided
2	22/04/24	29/04/24	Complete and mark unit tests 3 and 4. These can be found on the school website. Follow the link provided
3	29/04/24	06/05/24	Complete and mark unit tests 5 and 6. These can be found on the school website. Follow the link provided
4	06/05/24	13/05/24	Complete and mark unit tests 7 and 8. These can be found on the school website. Follow the link provided
5	13/05/24	20/05/24	Complete and mark the end of term tests. These can be found on the school website. Follow the link provided
6	20/05/24	03/06/24	Revise the formulae on the formulae sheet which can be found on the school website. Follow the link provided
7	03/06/24	10/06/24	Revise the keywords/phrases which are provided on the PLC page
Please al	so remembe	r to check S	eneca Learning for revision tasks to complete for the examinations









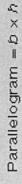
YEAR 9 end of year exam - checklist

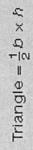
	—E		
	0	(1)	8
Establish index laws for positive powers where the answer is a positive power.			
Substitute positive integers into expressions involving small powers (up to 3).			
Write down whole number values that satisfy an inequality.			
Solve simple equations involving squares.			
Read and construct scale drawings.			
Use proportional reasoning to solve a problem.			
Use straight edge and compasses to construct the midpoint and perpendicular bisector of a line segment.			
Write questionnaire questions to eliminate bias, on timing and location of survey to ensure sample is representative.			
Identify parallel lines from their equations when they are in the form $y = mx + c$			
Identify the <i>y</i> -intercept from an equation $y = mx + c$			
Use the formulae for the area of a circle, given the radius or diameter.			
Multiply out brackets involving positive or negative terms ($a \pm b$)($c \pm d$)			
Write numbers greater than 10 in standard index form.			
Find an unknown where it is not the subject of the formula and where an equation must be solved. Deduce and use the formula for the area of a trapezium.			
Interpret dual bar charts.			
Calculate the mean and range from a frequency table for discrete data.			
Solve problems involving percentage change.			
Enlarge 2D shapes, given a centre of enlargement and a positive whole number scale factor.			
Begin to use linear expressions to describe the n th term in a two-step arithmetic sequence.			
Know the formula for Pythagoras' theorem and use to find the hypotenuse.			
Read, interpret and construct tables, bar charts, pictograms, pie charts and line graphs and use these to solve problems.			
Estimate the mean of grouped data using the mid-interval value.			
Write questionnaire questions to eliminate bias, on timing and location of survey to ensure sample is representative.			
Use and interpret maps, using proper map scales (1: 25 000)			
Evaluate a number written with a negative power.			
Use the laws of indices for a number written in index form raised to a power. Describe an enlargement using the scale factor and the centre of enlargement where the scale factor is negative and a fraction.			
Construct equations and linear graphs from real-life contexts to solve problems.			
Generate points and plot graphs of simple quadratic functions, then more general functions.			
Interpret information from a complex real-life graph (fixed charge/unit cost), read values and discuss trends.			

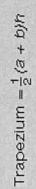
Formulae for KS3 End-Of-Year Tests

Areas

Rectangle = / x w





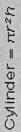


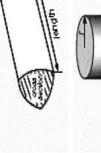


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Prism = area of cross section × length

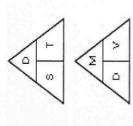




Compound measures

speed = distance time

 $density = \frac{mass}{volume}$



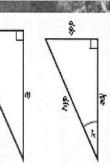
Pythagoras

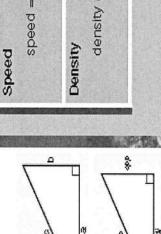
Pythagoras' Theorem

For a right-angled triangle, $a^2 + b^2 = c^2$



 $\sin x^o = \frac{\text{opp}}{\text{hyp}}, \cos x^o = \frac{\text{adj}}{\text{hyp}}, \tan x^o = \frac{\text{opp}}{\text{adj}}$





Formulae for Year 9 End-Of-Year Tests

Areas

Rectangle = 1 x w

Parallelogram = b x h



Trapezium = $\frac{1}{2}(a + b)h$

Volumes

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Cuboid = / x w x h

Prism = area of cross section × length

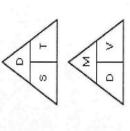
Cylinder = rrr2h



Compound measures

speed = distance time Speed

density = mass volume Density



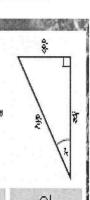
Pythagoras

Pythagoras' Theorem

For a right-angled triangle, $a^2+b^2=c^2$

Trigonometric ratios (new to F)

 $\sin x^o = \frac{\text{opp}}{\text{hyp}}, \cos x^o = \frac{\text{adj}}{\text{hyp}}, \tan x^o = \frac{\text{opp}}{\text{adj}}$





Year 9 SCIENCE Independent Learning Revision

Homework	Set	Due wb	Task and pages
1	15/04/24	22/04/24	Choose one of the revision activities and revise Cells
2	22/04/24	29/04/24	Choose one of the revision activities and revise Transport in cells. Review Cell division and Stem Cells
3	29/04/24	06/05/24	Choose one of the activities and revise the Heart and Heart Disease. Review Diffusion, Osmosis and Active Transport.
4	06/05/24	13/05/24	Choose one of the activities and revise Transport in Plants. Review The Heart
5	13/05/24	20/05/24	Choose one of the activities and revise Atomic Structure and Bonding.
6	20/05/24	03/06/24	Choose one of the activities and revise Energy. Review Atomic Structure
7	03/06/24	10/06/24	Choose one of the activities and revise Particle Model of Matter. Review Bonding

You can use the quiz questions to make flash cards, mind maps, or Q and Answer cards. Use the knowledge organiser and checklist to make Cornell notes or to look for answers.

Please also remember to check Seneca Learning for revision tasks to complete for the examinations





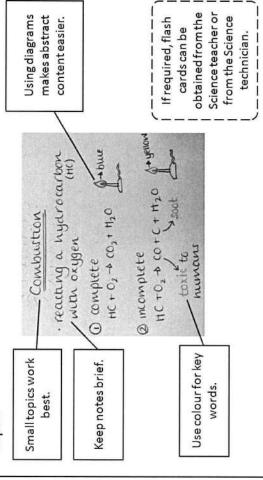


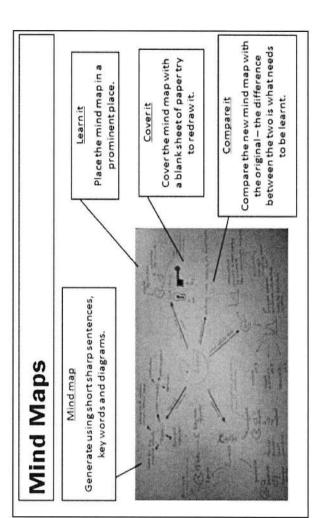


Year 9 Revision Activities

Flash Cards

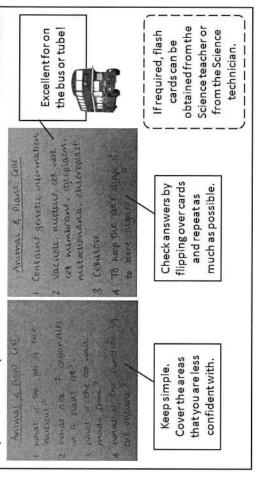
 Use small pieces of card or paper to make concise notes on a topic.

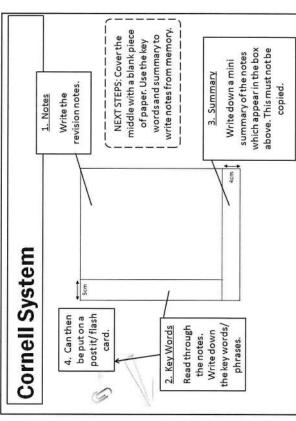




Q&A Cards

Use small pieces of card or paper to write questions on a particular topic. The answer should be written on the other side.





Year 9 AQA GCSE Science B1 Cell Biology and Transport



4.1.1 Cell structure			
4.1.1.1 Eukaryotes and prokaryotes	0	(1)	8
<u>Plant and animal cells</u> (eukaryotic cells) have a cell membrane , cytoplasm and genetic material enclosed in a nucleus .			
Bacterial cells (prokaryotic cells) are much smaller in comparison. They have cytoplasm and a cell membrane surrounded by a cell wall . The genetic material is not enclosed in a nucleus. It is a single DNA loop and there may be one or more small rings of DNA called plasmids .			
 Students should be able to: ★ Demonstrate an understanding of the scale and size of cells and be able to make order of magnitude calculations, including the use of standard form. 			
WS 4.4 Use prefixes centi, milli, micro and nano.			
4.1.1.2 Animal and plant cells	0	①	(3)
 Most <u>animal cells</u> have the following parts: a nucleus, which controls the activities of the cell cytoplasm, in which most of the chemical reactions take place a cell membrane, which controls the passage of substances into and out of the cell □ mitochondria, which is where aerobic respiration takes place □ ribosomes, which are where protein synthesis occurs. 			
In addition to the parts found in animal cells, <u>plant cells</u> often have:			
☐ chloroplasts , which absorb light to make food by photosynthesis ☐ a permanent vacuole filled with cell sap.		4 - 3	
<u>Plant and algal cells</u> also have a cell wall made of cellulose , which strengthens the cell.			
 Students should be able to: ★ Explain how the main sub-cellular structures, including the nucleus, cell membranes, mitochondria, chloroplasts in plant cells and plasmids in bacterial cells are related to their functions. 			
★ Use estimations and explain what they should be used to judge the relative size or area of subcellular structures.			
WS 1.2 Recognise, draw and interpret images of cells.			
REQUIRED PRACTICAL – Microscopy. AT 1 & 7			
4.1.1.3 Cell specialisation	0	①	8
Cells may be specialised to carry out a particular function: sperm cells, nerve cells and muscle cells in animals root hair cells, xylem and phloem cells in plants.			

In mitosis one set of chromosomes is pulled to each end of the cell and the nucleus divides .			
Finally, the cytoplasm and cell membranes divide to form two identical cells .			
Cell division by mitosis is important in the growth and development of multicellular organisms.			
Students should: ★ Understand the three overall stages of the cell cycle but do not need to know the different phases of the mitosis stage.			
★ Be able to recognise and describe situations in given contexts where mitosis is occurring.			
4.1.2.3 Stem cells	0	(2)	8
A stem cell is an undifferentiated cell of an organism which is capable of giving rise to many more cells of the same type, and from which certain other cells can arise from differentiation.			
Stem cells from human embryos can be cloned and 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.			

WS 1.2 Recognise, draw and interpret diagrams that model osmosis.			
4.1.3.2 Active Transport – Links with 'Cell specialisation' in term 1.	0	@	8
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 .			
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 .			
Students should be able to:			
★ Describe how substances are transported into and out of cells by diffusion, osmosis and active transport (link to the treatment for kidney failure - dialysis).			
* Explain the differences between diffusion, osmosis and active transport.			

4.2.2.2 The heart and blood vessels	0	⊕	8
The heart is an organ that pumps blood around the body in a double circulatory system .		250-200	
The right ventricle pumps blood to the lungs where gas exchange takes place.			
The left ventricle pumps blood around the rest of the body .			
Knowledge of the blood vessels associated with the heart is limited to the aorta, vena cava, pulmonary artery, pulmonary vein and coronary arteries. Knowledge of the names of the heart valves is not required.			
Knowledge of the lungs is restricted to the trachea , bronchi , alveoli and the capillary network surrounding the alveoli .			
The natural resting heart rate is controlled by a group of cells located in the right atrium that act as a pacemaker.			
Artificial pacemakers are electrical devices used to correct irregularities in the heart rate.			
The body contains three different types of blood vessel: • arteries • veins • capillaries.			

Year 9 AQA GCSE Science C1 Atomic Structure and Bonding

4.1.1 Atoms, elements and compounds			
4.1.1.1 Atoms, elements and compounds	0	(2)	8
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 , eg O represents an atom of oxygen, Na represents an atom of 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 , and often involve a detectable energy change .			
Compounds contain two or more elements chemically combined in fixed proportions and can be represented by formulae using the symbols of the atoms from which they were formed. Compounds can only be separated into elements by chemical reactions .			
Chemical reactions can be represented by word equations or equations using symbols and formulae .			
Students will be supplied with a periodic table for the exam and should be able to: ★ Use the names and symbols of the first 20 elements in the periodic table, the elements in Groups 1 and 7, and other elements in this specification.			
★ Name compounds of these elements from given formulae or symbol equations.			
★ Write word equations for the reactions in this specification.			
★ Write formulae and balanced chemical equations for the reactions in this specification.			
★ (HT only) Write balanced half equations and ionic equations where appropriate.	8		
4.1.1.2 Mixtures	0	(1)	8
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 . These physical processes do not involve chemical reactions.			
Students should be able to:			
★ Describe , explain and give examples of the specified processes of separation.			
★ Suggest suitable separation and purification techniques for mixtures when given appropriate information.			
4.1.1.4 Relative electrical charges of subatomic particles	(1)	8	

The electrons in an atom occupy the lowest available energy levels (innermost available shells). The electronic structure of an atom can be represented by numbers or by a diagram. For example, 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. Students may answer questions in terms of either energy levels or shells.	
Students should be able to:	
★ Represent the electronic structures of the first twenty elements of the periodic table in both forms.	

4.1.2 The periodic table			
4.1.2.1 The periodic table	0	@	8
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.			
Elements in the same group in the periodic table have the same number of electrons in their outer shell (outer electrons) and this gives them similar chemical properties .			
Students should be able to: * Explain how the position of an element in the periodic table is related to the arrangement of electrons in its atoms and hence to its atomic number.			
 ★ Predict possible reactions and probable reactivity of elements from their positions in the periodic table. 			
4.1.2.2 Development of the periodic table	0	☺	8
Before the discovery of protons, neutrons and electrons, scientists attempted to classify the elements by arranging them in order of their atomic weights .			
The early periodic tables were incomplete and some elements were placed in inappropriate groups if the strict order of atomic weights was followed.			

4.1.2.4 Group 0	0	9	8
The elements in Group 0 of the periodic table are called the noble gases . They are unreactive and do not easily form molecules because their atoms have stable arrangements of electrons. The noble gases have eight electrons in their outer energy level, except for helium, which has only two electrons.	1		

4.2.1.3 Ionic compounds	0	(2)	8
An ionic compound is a giant structure of ions. Ionic compounds are held together by strong electrostatic forces of attraction between oppositely charged ions . These forces act in all directions in the lattice and this is called ionic bonding .			
The structure of sodium chloride can be represented in the following forms: Key Na ⁺ CI Students should be familiar with the structure of sodium chloride but do not need to know the structures of other ionic compounds.			
Students should be able to: ★ Deduce that a compound is ionic from a diagram of its structure in one of the specified forms			
★ Describe the limitations of using dot and cross, ball and stick, two and three dimensional diagrams to represent a giant ionic structure			
When a metal atom reacts with a non-metal atom, electrons in the outer shell of the metal atom are transferred. Metal atoms lose electrons to become positively charged ions. Non-metal atoms gain electrons to become negatively charged ions. The ions produced by metals in Groups 1 and 2 and by non-metals in Groups 6 and 7 have the electric structure of a noble gas (Group 0).			
The electron transfer during the formation of an ionic compound can be represented by a dot and c diagram e.g. for sodium chloride:	ross		
The charge on the ions produced by metals in Groups 1 and 2 and by non-metals in Groups 6 and 7 r to the group number of the element in the periodic table.	elates		
Students should be able to: ★ Draw dot and cross diagrams for ionic compounds formed by metals in Groups 1 and 2 with non-in Groups 6 and 7.	netals		
★ Work out the charge on the ions of metals and non-metals from the group number of the elemental limited to the metals in Groups 1 and 2, and non-metals in Groups 6 and 7.	nt,		

Students should be able to:		
★ Explain the properties of diamond in terms of its structure and bonding.		

4.2.3.2 Graphite	0	(2)	8
In graphite, each carbon atom forms three covalent bonds with three other carbon atoms, forming layers of hexagonal rings which have no covalent bonds between the layers.			Meg to
Graphite has a high melting point . The layers are free to slide over each other because there are no covalent bonds between the layers and so graphite is soft and slippery .			
In graphite, one electron from each carbon atom is delocalised . These delocalised electrons allow graphite to conduct thermal energy and electricity.			
Students should be able to: ★ Explain the properties of graphite in terms of its structure and bonding.			
★ Know that graphite is similar to metals in that it has delocalised electrons .			

4.2.1.5 Metallic bonding	0	⊕	8
Metals consist of giant structures of atoms arranged in a regular pattern.			
The electrons in the outer shell of metal atoms are delocalised and so are free to move through the whole structure . The sharing of delocalised electrons gives rise to strong metallic bonds .			

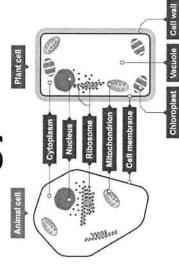
kinetic ene	$E_k = \frac{1}{2}m v^2$	
•	kinetic energy, E_k , in joules, J	T
•	mass, m, in kilograms, kg	
•	speed, v, in metres per second, m/s	
alculated u	s of gravitational potential energy gained by an object raised above ground level can be sing the equation: all potential energy = mass \times gravitational field strength $(g \mid E_p = m \mid g \mid h)$	
alculated u	sing the equation: all potential energy = mass \times gravitational field strength ($g \mid E_p = m \mid g \mid h$)	
alculated u gravitation	sing the equation: all potential energy = mass \times gravitational field strength ($g \mid E_p = m \mid g \mid h$) gravitational potential energy, E_p , in joules, J	
alculated u gravitation	sing the equation: all potential energy = mass \times gravitational field strength $(g \mid E_p = m \mid g \mid h)$ gravitational potential energy, E_p , in joules, \mathbf{J} mass, m , in kilograms, \mathbf{kg}	
gravitation) × height	sing the equation: all potential energy = mass \times gravitational field strength ($g \mid E_p = m \mid g \mid h$) gravitational potential energy, E_p , in joules, J	

4.1.1.3 Energy changes in systems	0	@	8
The amount of energy stored in or released from a system as its temperature changes can be calculated using the equation:			
change in thermal energy = mass \times specific heat capacity $\Delta E = m \ c \ \Delta \theta$ \times temperature change			
• change in thermal energy, ΔE , in joules, ${f J}$			
 mass, m, in kilograms, kg specific heat capacity, c, in joules per kilogram per degree Celsius, J/kg °C □ temperature change, Δθ, in degrees Celsius, °C 			
The specific heat capacity of a substance is the amount of energy required to raise the temperature of one kilogram of the substance by one degree Celsius.			
Students should be expected to:			
★ Apply the equation for specific heat capacity , which is given on the Physics equation sheet .			
REQUIRED PRACTICAL: Specific Heat Capacity. AT 1 and 5.			
4.1.1.4 Power	0	@	8
Power is defined as the rate at which energy is transferred or the rate at which work is done.			
$power = \frac{energy transferred}{time}$ $P = \frac{E}{t}$			
$power = \frac{work done}{time}$ $P = \frac{W}{t}$			
• power, P, in watts, W			
 energy transferred, E, in joules, J 			
 work done, W, in joules, J 			
 time, t, in seconds, s 			

When the molecules collide with the wall of their container they exert a force on the wall. The total force exerted by all of the molecules inside the container on a unit area of the walls is the gas pressure .		
Changing the temperature of a gas, held at constant volume, changes the pressure exerted by the gas.		
Students should be able to:		
★ Explain how the motion of the molecules in a gas is related to both its temperature and its pressure.		
★ Explain qualitatively the relationship between temperature of a gas and its pressure at constant volume.		

4.3.2 Internal energy and energy transfers			
4.3.2.1 Internal energy	0	@	8
Energy is stored inside a system by the particles (atoms and molecules) that make up the system. This is called internal energy .			
Internal energy is the total kinetic energy and potential energy of all the particles (atoms and molecules) that make up a system.			
Heating changes the energy stored within the system by increasing the energy of the particles that make up the system. This either raises the temperature of the system or produces a change of state			
4.3.2.2 Temperature changes in a system and specific heat capacity	0	(2)	8
If the temperature of the system increases: The increase in temperature depends on the mass of the substance heated, the type of material and the energy input to the system.			
change in thermal energy = mass \times specific heat capacity $\Delta E = m \ c \ \Delta \theta$ \times temperature change			
 change in thermal energy, ΔE, in joules, J mass, m, in kilograms, kg specific heat capacity, c, in joules per kilogram per degree Celsius, J/kg °C □ temperature change, Δθ, in degrees Celsius, °C 			
The specific heat capacity of a substance is the amount of energy required to raise the temperature of one kilogram of the substance by one degree Celsius.			
Students should be able to:			
★ Apply the equation for specific heat capacity which is given on the Physics equation sheet.			
4.3.2.3 Changes of heat and specific latent heat	0	☺	8
If a change of state happens: The energy needed for a substance to change state is called latent heat . When a change of state occurs, the energy supplied changes the energy stored (internal energy) but not the temperature .			
The specific latent heat of a substance is the amount of energy required to change the state of one kilogram of the substance with no change in temperature.			

Biology



nooni ficoti	= 100	measn
again france	1	- to

size 26

Add a drop of water to the middle of a clean slide.

Preparing a microscope slide

Movement from a lower concentration to a higher concentration, against the concentration gradient.

24. Active Transport

25. Gas exchange in the lungs takes place in the alveoli

(shape = large surface area. Good blood supply and

26. The small intestine is covered in tiny villi which

thin walls.

Spreading out of particles from an area of higher concentration to an area of lower concentration.

22. Diffusion

and iodine solution

water drop

23. Osmosis

The movement of water molecules across a partially permeable membrane from a less concentrated solution to a more concentrated solution.

Cut up an onion and take off one layer

Use tweezers to peel off some epidermal tissue (the clear 'skin') from the bottom of the layer. Û

Using the tweezers, place the skin into the water on the slide. ਰ

Add a drop of jodine solution. Iodine solution is a stain.

Stains can make different parts of a cell easier to see. 6

Place a cover slip on top. Try not to get any air bubbles under it.

CTY.

(shape = large surface area. Good blood supply)

absorb food

13. Adult stem cells can only produce certain types of cell-found in bone marrow

14. Embryonic stem cells can produce all types of cells -controversial
15. Plant stem cells found in meristems



The cell cycle



and dry them carefully with a Take out the potato cylinders paper towel. O

Root hair cells absorb water and minerals

Big surface area for absorption

Long hairs

Long so have space to contract Lots of mitochondria for energy

Muscle cells contract

.

Phloem cells transport sugars (plants)

Long tube joined end to end

Measure the mass again.

Investigating osmosis in potatoes a) Cut potatoes into cylinders

Camy electrical signals around the body

Lots of mitochondria for energy

Take male DNA to the egg

Tail to help it swim

.

Branches to connect to other cells

Long to cov erlong distances

Put 1 in pure water and the other concentrated sugar 9

If the mass has increased, o o

decreased, waterhas moved water has moved in because of osmosis. If the mass has out because of osmosis.

Long tubes joined end to end Hollow so water can flow through

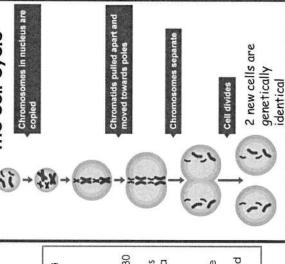
.

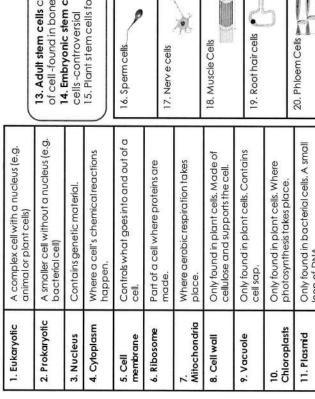
21. Xylem cells

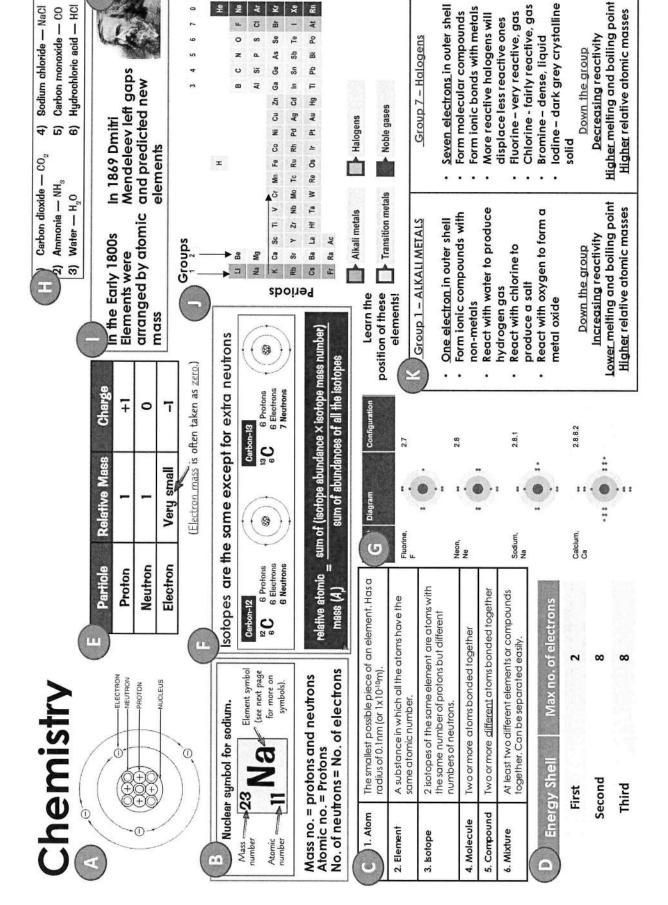
Only found in bacterial cells. A small loop of DNA.

11. Plasmid

Xylem cells transport water (plants)







- Calcium chloride CaCl,
- Sodium carbonate Na₂CO₃ 8 6
 - Sulfuric acid H₂80₄

Chromatography

Jsed to separate a mixture of dyes in

2. Filtration

Used to separate insoluble solids from liquids (e.g. sand from water)

strongly in an ev aporating basin until Used to separate a soluble salt from solution. The solution is heated dry crystals are left

Used to separate a soluble salt from 4. Crystallisation

solution. The solution is heated gently in an ev aporating basin until crystals form; the remaining liquid is filtered

Is used to separate a liquid from a solution – e.g. waterfromink. A 5. Simple distillation

condenser is used to cool hot gas

untilit forms a liquid.

Used to separate a mixture of liquids 6. Fractional distillation

Group 0 - Noble Gases with different boiling points.

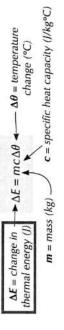
- Eight electrons in outer shell
- Not very reactive because of their stable outer shell
 - Monatomic gases single atoms not bonded to each
- All colourless gases at room other
 - Nom-flammable **lemperature**

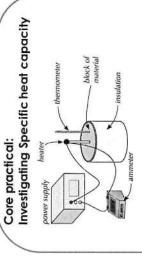
Higher relative atomic masses Higher boiling point Down the group

Physics

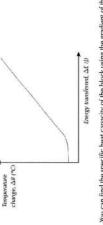
Energy store	Objects with energy in this store
Kinetic	Anything moving has energy in its kinetic energy store.
Thermal	Any object. The hotter it is, the more energy it has in this store. You may also see thermal energy stores called internal energy stores.
Chemical	Anything that can release energy by a chemical reaction, e.g. food, fuels.
Gravitational Potential	Anything that has mass and is inside a gravitational field.
Elastic Potential	Elastic Potential Anything that is stretched (or compressed) e.g. springs.
Electrostatic	Anything with electric charge that is interacting with another electric charge — e.g. two charges that attract or repel each other.
Magnetic	Anything magnetic that is interacting with another magnet — e.g. two magnets that attract or repel each other.
Nuclear	Atomic nuclei have energy in this store that can be released in nuclear reactions.

Specific heat capacity is the amount of energy needed to raise the temperature of 1 kg of a substance by 1 °C.





Use the current and voltage reading to calculate **power**. Use this to calculate how much energy has been transferred by the heater. Assuming no energy has been dissipated you can plot a graph:



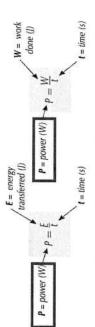
You can find the specific heat capacity of the block using the gradient of the linear part of your graph. The gradient is $\Delta\theta + \Delta E_s$ so since $\Delta E = mc\Delta\theta_s$, the gradient is 1 + mc. So the specific heat capacity of the material of the block is $1 + \xi = 1 + \xi = 1 + \xi = 1$.

Energy transfer for falling objects

When something falls, energy from its gravitational potential energy store is transferred to its kinetic energy store. The further is falls, the faster it goes.

For a falling object when there's no air resistance, you can use the principle of conservation of energy to get:

Energy lost from the g.p.e. store = Energy gained in the kinetic energy store

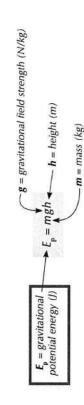


Work done is energy transferred from one store to another.

The principle of **conservation of energy** states that energy can be transferred usefully, stored, dissipated but never created or destroyed **Power** is the rate of energy transferred.

$$efficiency = \frac{useful power output}{total power input}$$







Year 9 Geography Independent Learning Revision

Set	Due wb	Task and pages		
15/04/24	22/04/24	Complete task 1-10 on Plate tectonics and Development		
22/04/24	29/04/24	Make a mind map and revision cards on the four types of plate boundary - Explain what happens at each using key words		
29/04/24	06/05/24	Make a mind map or revision cards on development indicators		
06/05/24	13/05/24	Make a mind map or revision cards on the Asia unit		
13/05/24	20/05/24	Map skills – Use the knowledge organisers to revise four and six figure grid references.		
20/05/24	03/06/24	Map skills – Use the knowledge organisers to revise how height and direction can be shown on a map.		
03/06/24	10/06/24	Make a glossary of all the key terms in the Plate tectonics unit		
	15/04/24 22/04/24 29/04/24 06/05/24 13/05/24 20/05/24	15/04/24 22/04/24 22/04/24 29/04/24 29/04/24 06/05/24 06/05/24 13/05/24 13/05/24 20/05/24 20/05/24 03/06/24		

Please also remember to check Seneca Learning for revision tasks to complete for the examinations









YEAR 9 Geography Assessment Revision PLC

Unit 2 – Plate Tectonics and Earthquakes

	نا عد	\underline{V}	
Why do the causes, impacts and management of earthquakes vary with location?			
What you need to know	③	(1)	6
To be able to define what a natural hazard is.		No. Service	
To be able to categorise different natural hazards into atmospheric and geophysical			
To be able to explain why some natural hazards become natural disasters			
Be able to identify name of the different layers of the Earth			
Be able to explain how temperature , density , composition and physical state is different for each layer of the Earth			
To be able to explain what continental drift is and how it occurs			
To be able to describe the distribution (pattern) of earthquakes on a global scale			
To be able to explain direction of plate movement and type of hazards that occur at a conservative plate boundary			
To be able to give a named example of a conservative plate boundary			
To be able to explain the direction of plate movement and type of hazards that occur at a destructive (convergent) plate boundary			
To be able to give a named example of a destructive plate boundary			
The direction of plate movement and type of hazards that occur at a constructive (divergent) plate boundary			
To be able to give a named example of a constructive plate boundary			
To be able to describe the hazards are associated with earthquakes			
To be able to explain why some earthquakes are more damaging than others e.g. depth of focus, magnitude, location of epicentre			
To be able to explain how tsunamis are formed and the hazards they are associated with			
Be able to give a named example of an earthquake in a developing country (Haiti) , what it's primary and secondary effects were and how it impacted people and property			
Be able to give a named example of an earthquake in a developed country (Japan or New Zealand) , what it's primary and secondary effects were and how it impacted people and property			
Be able to give a named example of a developing country and how it manages earthquakes			
Be able to give a named example of a developed country and how it manages earthquakes			
Be able to explain the difference between short term relief (e.g. shelter and supplies) and long-term planning (e.g. training and funded emergency services)			
Be able to explain how we can prepare for an earthquake			
Be able to explain how we can make buildings earthquake proof			
Be able to explain how we can predict earthquakes			
Map Skills (Year 7)			
Can explain the terms longitude and latitude and use these to locate places			
			_

Plate Tectonics/Development/Asia- Revision

In this lesson we will revise for the Year 9 End of Year Assessment

- 40 marks
- 45 minutes

- 1.Name the four layers of the EARTH'S crust
- 2. Explain what happens at a destructive plate boundary and the events that occur there
- 3. Explain what happens at a constructive plate boundary and the events that occur there.
- 4. Explain what happens at a conservative plate boundary
- 5. What is the difference between the focus and the epicentre of an earthquake?
- 6. Suggest three ways people can prepare for earthquakes and reduce the
- 7. Name a social indicator of development
- 8. Explain how providing clean water can improve development.
- 9. Explain why some countries are less developed than others.
- 10. Explain why the monsoon is so important to the population of countries such as India

Year 9

Knowledge Organiser Focus:

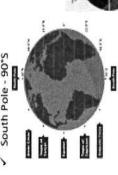
Map skills and the UK

ines of latitude

Grid references

There are 7 major lines of latitude:

- North Pole 90°N
- Tropic of Cancer 23.5 °N Arctic Circle - 66.5 °N
- Tropic of Capricorn 23.5 °S Equator - 0 *
 - Antarctic Circle 66.5 °S
 - South Pole 90°S

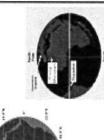


The 4 figure grid reference for the star is 1337

You then go up the stairs, find the grid square and choose the bottom left number on that

Choose the bottom left number on that

To find a 4 figure grid reference you must; Go along the corridor and find the grid



Along the corridor Up the stairs

6 Figure grid references give you an exact location of a place.

Maps are divided into grid squares. These help to locate places/objects on a map easier. Each grid square is given a number. In order to find a grid reference you must go "Along the corridor and then Up the Stairs."

- To find a 6 figure grid reference you must;
- Choose the bottom left number on that square. Go along the corridor and find the grid square.
- Imagine the square is divided into tenths and decide how many 10th's across the object it. This will be 3rd number.
- You then go up the stairs, find the grid square and choose the bottom left number on that square.
 - Imagine the square is divided into tenths and decide how many 10th's across the object it. This will be 6th number.



Compass directions

Never Eat Shredded Wheat

To get the 8 compass; compass are; points of a The 4 main

North South East

the North or South point always use E.g. North

West - South

Measuring distances- scale

Scale can	be shown on a n	Scale can be shown on a map in different ways
Scale Line	- 1	A scale line on a map shows that 1cm on a map is the same as 1km on the ground. Sometimes it can be shown in miles also.
Ratio	1:25,000	Ratio can be shown in different ways on a map, you need to check this when measuring distance. If a scal is 2cm to 1 km, you will need to calculate the distanc

ruler/piece of paper to from one For CURVED LINE distances. Use or bend. Then measure the next distance. Calculate the total and measure to the point of a curve measure this on the scale line. measure on the scale line. "as the crow flies". use a a ruler/piece of paper to h

You can tell the height of land on a map in three different ways:

Relief and height of the land

Contour Lines Lines	colouring Layer colouring uses colours to repesent areas of higher land. Areas of mountainous land are usually shown as brown, like in this map of the UK Spot Spot Spot Spot heights are usually shown as a dot	heights 4.0 Horriangle with a number on a map. They give the exact height of a point
--	--	---

<u>a</u> 9

◂



Contour lines give you an idea of the shape of the land Most have their height marked on them in meters.

✓ If contour lines are close together, the land is

If contour lines are far apart, there is a gentle slope.

YEAR 9 Geography – End of Year Assessment -Revision List

What is development?			
	0	(1)	8
To be able to define development			
To be able to explain the difference between quality of life and standard of living			
To be able to categorise countries – Advanced Countries (ACs), Emerging Developing Countries (EDCs) and Low Income Developing Countries (LIDCs)			
To be able to identify different ways of measuring development using a range of development indicators (economic, social and environmental)			
To be able to explain why the Human Development Index is a better measure of development than Gross National Income			
To be able to explain how population and development are linked			
To be able to explain how development changes over time			
To be able to explain how health and development are linked			
To understand the term 'development gap'			
To be able to explain the human and physical causes of uneven development			
To be able to explain how gender equality can increase development			
To evaluate a range of strategies aimed at reducing the development gap e.g. tourism, education, improved health care and inward investment (Transnational Corporations -TNCs)			

YEAR 9 – Unit 3 Diverse and Dynamic: how is Asia being transformed?

Diverse and Dynamic: How is Asia being transformed?	علاا		
What you need to know	0	(2)	8
Define the term diverse			
Use evidence to explain why Asia is a diverse continent			
Locate some of the key physical features of Asia			
Explain the diversity of the weather in Asia			
Explain the formation of the monsoon climate in India			
Explain why the monsoon climate is so important to the people of India			
Explain the impact of flooding in Southern Asia			
Explain the causes and responses to flooding in Bangladesh			
Describe and explain the distribution of biomes in Asia			
Describe and explain the adaptations of vegetation, animals and people to mountain biomes			
Explain how people can change a biome – the impacts of deforestation in Nepal			
To describe the population distribution of Asia			
To describe and explain the reasons for population changes across Asia			
To compare the population structures of two countries in Asia - Afghanistan and Japan			
To explain why people move from rural areas to Bangalore			
To describe and explain the opportunities and challenges of life in Bangalore			
Decision Making task – How can life be improved for people in Karnataka?			
To identify the reasons for China's economic growth			
To evaluate the purpose of China's new Belt and Road project			
To understand the growing world importance of Asia			
To explain the world shift in world trade			



Year 9 History Independent Learning

Homework Set Due wb Tas			Task and pages
1	15/04/24	22/04/24	Use your PLCs and Knowledge Organisers to create a list of 5-10 key terms for each topic and their definitions
2	22/04/24	29/04/24	Use your PLCs and Knowledge Organisers to create a list of 5-10 key dates (with 2-3 facts) in chronological order
			Focus: WWII
3	29/04/24	06/05/24	Create a mind map OR a flashcard on each of the battles studied. Include specific examples such as; why the battle took place, who fought, key events, outcome. Most importantly explain why this was a turning point in WWII
	06/05/24	13/05/24	Focus on Holocaust
4			Create a mind map OR a flashcard on the Holocaust. Create subheadings on the following topics – aim to include 2-3 facts for each.
			Causes (long term and short term), Nazi ideology, children and indoctrination, examples of dehumanisation, the final solution, life after the Holocaust, the role of perpetrators/bystanders/resisters/collaborators
			Focus on the Blitz
5	13/05/24	20/05/24	Create a mind map OR a flashcard on the following: Evaluation, air raid shelters, rationing, censorship and propaganda. Aim for 3-5 facts for each theme. Stretch – recap the structure we use to analyse sources









Year 9 Knowledge Organiser Spring 1: Holocaust

500	Key Statistics and dates	第5条件的线性的变形 在数据 证明的。
1	How many Jews died in the Holocaust?	6 million
2	How many Jewish children died in the Holocaust?	1 ½ million
3	What period is typically known as the Holocaust	1941-45
4	When did Hitler become Chancellor (Prime	Jan 1933
	Minister) of Germany?	
5	What was the total number of concentration	40,000
	camps, death camps and ghettos controlled by the	
	Nazis across Europe?	
	Origins and Experience of the Holocaust	上的"CIPALITY AND
6	Which new subject was created in German schools	Race Studies
	to teach students about social Darwinism and why	
_	some races were superior to others?	
7	Which law passed in 1933 gave Hitler the power to	Enabling Act
_	make laws without approval of the parliament?	Darker (Green)
8	What was the name of the first concentration	Dachau, (Germany)
9	camp opened in March 1933? Which set of laws created in 1935 denied Jews	Nursemberg Laure
9	their citizenship rights and made it illegal for them	Nuremberg Laws
	to marry Germans?	
10	In 1938-some 90 Jews are killed, and another	Kristallnacht
10	30,000 were arrested and sent to concentration	Kristamiaent
	camps. Two hundred and sixty-seven synagogues	
	were destroyed. What was this night known as?	
11	What was the largest death camp and where was	Auschwitz-Berkanau, Poland
	it?	₩
12	How much money was generated for the Nazi	About 60 million Reichmarks - equivalent to
	government by slave labour at Auschwitz	£125m today
13	Which country saw the greatest extermination of	Poland (91%)
1.1	the Jews?	7.11
14	What was the name of the gas used in the gas chambers?	Zyklon B
15	71.00.00	Denmark QE% of lows saved (shipped agrees
12	Which country managed to 'save' the greatest percentage of Jews from Nazi extermination?	Denmark- 95% of Jews saved- (shipped across to Sweden)
	(How)?	to swedeny
	Aftermath and consequences of the Holocaust	
16	When did Germany surrender from the Second	May 8 th 1945
	World War?	
17	How many Nazi war criminals were imprisoned for	10,000
	their role in the Holocaust between 1945 and	
	1985?	
18	When did Hitler kill himself in his Berlin bunker?	April 30 th 1945
19	How many people were thought to be perpetrators	200,000
	of the Holocaust?	
20	In a 2004 survey, what number of survivors of Nazi	500
	death camps or ghettos were thought to be living	
e e	in Britain?	

YEAR 9: KNOWLEDGE ORGANISER THE BLITZ: WITH ANSWERS

128	Key Dates and Information	40至3年3月25日,第15日3月1日日 1日日日日日日日日日
1	When did the Blitz take place?	1940-45
2	When was evacuation introduced?	1 st September 1939
3	When were the first Blitz raids of London?	7 th September 1940
4	When were the last Blitz raids on London?	27 th March 1945
5	Which famous London sites were attacked?	St Pauls Church, St James' Palace, etc.
100	Key Statistics and Key Terms	5. 20 (1955) A. 20 (1956) A. 20
6	What is meant by the term 'raid'?	A sudden surprise attack on the enemy
7	What is meant by 'The Lull'?	When the air raids stop/ ease temporarily
8	What is meant by the term 'propaganda'?	Spreading of a particular idea or view through posters, speeches etc.
9	What is the difference between propaganda and censorship?	Censorship is withholding information for a specific reason, propaganda is spreading information with a particular purpose
10	How many people were evacuated during the War?	1.5 million
11	How many people died in the first Blitz attacks in London?	420 people
12	How many people died as a result of the 'Baby Blitz'?	3,793 people
13	What was meant by the phrase 'Blitz Spirit'?	The stoic determination not to cower to the Germans
	Military information	(A) 10 (A)
14		V1
	bomb' that could be launched	
	from abroad and did not require a	
	pilot?	
15	What was the name of the new	V2
	'rocket bomb' that could be heard	
	from 10 miles away?	
16	AND SOLD STATE OF THE PROPERTY OF SOLD STATE OF SOLD SAFED STATE OF THE SOLD STATE OF	The Anderson and Morrison shelters
	household shelters available for	
	civilians during the war? Civilian Life	
III.		
17	THE CONTRACTOR OF THE CONTRACT	The princesses were evacuated the King and Outer remained
17	What happened to the Royal	The princesses were evacuated, the King and Queen remained in Buckingham Palace
1130000	What happened to the Royal Family during the Blitz?	in Buckingham Palace
17 18	What happened to the Royal Family during the Blitz? What entertainment proved	
18	What happened to the Royal Family during the Blitz? What entertainment proved popular during the Blitz?	in Buckingham Palace Matinee films, dance halls, restaurants
1130000	What happened to the Royal Family during the Blitz? What entertainment proved popular during the Blitz? Which local areas to Forest Hill	in Buckingham Palace
18	What happened to the Royal Family during the Blitz? What entertainment proved popular during the Blitz?	in Buckingham Palace Matinee films, dance halls, restaurants

Year 9 Knowledge Organiser Spring 2: WW2

	Key Facts, Statistics and Dates	经产品的 B 20 F 20 T 6 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	When did Britain declare war on Germany?	September 3rd, 1939
2	When was the armistice signed ending the Second World War?	14 August 1945 (although formal surrender of Japan 2 nd September 1945)
3	Which 3 major nations formed the Allied powers(+ their colonies)?	Britain, USSR, USA (+ their colonies)
4	Which three major nations formed the Axis powers?	Italy, Germany, Japan
5	Who were the three leaders of the Allies?	Winston Churchill (GB), Franklin D Roosevelt (USA), Josef Stalin (USSR)
6	Who were the three leaders of the Axis?	Adolf Hitler (Germany), Benito Mussolini (Italy), Emperor Hirohito (Japan)
7	How many people from the Commonwealth were enlisted in the war effort (men and women from across the world)	11.5 million
8	Roughly how many British soldiers were enlisted to support the War?	3.5 million
9	Roughly how many countries were involved in WW2?	30
10	Roughly how many people died in WW2?	60 million
	Experience of WW2	是有是2000年,但是1000年的1000年的1000年
11	When was rationing introduced in Britain? (Why?)	Jan 1940 (German U-boats were affecting imports)
12	How many children were evacuated from cities to the countryside in WW2? (Where did they go?)	3 million (mainly Wales, Cornwall, Devon)
13	What was the worst point in the Blitz over London (1940-1)	London was bombed for 57 days in a row
14	Which two fighter planes were used to great effect in the Battle of Britain?	Hawker Hurricane and Spitfire
15	What was the bloodiest battle of WW2 and warfare history (2 million killed or captured)?	Stalingrad
16	What were the names of the 5 beaches that would be part of the Normandy Landings (D-Day)?	Sword, Omaha, Gold, Juno, Utah
	Aftermath and consequences of WW2	计图: 古外人的对话中的复数形式
17	How was Germany controlled after WW2?	Germany was split into 4 zones to be controlled by France, Britain, USA and USSR
18	What happenened to Japan at the end of WW2?	Two atomic bombs dropped on Hiroshima and Nagasaki, then controlled until 1952 by the USA
19	Which nation suffered the greatest casualties from WW2?	USSR- 20 million military deaths (and 80% of male population in St Petersburg)
20	When did the Cold War begin? Who was at 'war'?	Aug 1945- USSR versus USA

YEAR 9 – End of Year Checklist



Holocaust, WWII and the Blitz			
Year 8 Retrieval	0	@	8
I can explain the impact of WWII on immigration to Britain			
Key Vocabulary and Terminology – Can you define the words? Can you use them in a sentence?	0	9	8
I can define all of the key vocabulary and terminology from the knowledge organisers from the Holocaust, WWII and the Blitz			
I can use all of the key vocabulary and terminology in sentences			
I can explain how all of the key vocabulary and terminology relates to the period of history I have been studying in Year 9			
Key dates — Can you put these in chronological order?	0	(2)	8
The key events of the Holocaust			
The key events of WWII			
The key events from the Blitz			
Key knowledge and skills – Can you do these in your written work?		AT U	
Holocaust	0	⊕	8
I can explain when and why the Holocaust took place			
I can explain the impact of the Holocaust and describe how it was experienced from a range of perspectives			
<u>Historical skill</u> : I can make inferences from sources about the experiences of the Holocaust and explain how and why they are useful			
WWII	0	(2)	8
I can explain the key battles of WWII			
Historical skill: I can explain why each chosen battle was significant			
<u>Historical skill</u> : I can compare these battles and come to a judgement on which was the most significant and why			
The Blitz	0	(2)	8
I can explain the main events/dates/ causes of the Blitz			
I can describe the impact of the Blitz on ordinary life in London			
<u>Historical skill</u> : I can make inferences from sources about the experiences of the Blitz and why they are useful			
<u>Historical skill</u> : I can make inferences from sources about the use of censorship and propaganda during the Blitz and why they are useful			

Year 9 SPANISH Independent Learning Revision

Homework	Set	Due wb	Task and pages
1	15/04/24	22/04/24	 Read through the vocabulary list for module 1 Highlight unknown vocabulary. Create a mind map with important vocabulary (adjectives/verbs/nouns)
2	22/04/24	29/04/24	 Read through the vocabulary list for module 2 Highlight unknown vocabulary. Create a mind map with important vocabulary (adjectives/verbs/nouns)
3	29/04/24	06/05/24	 Read through the vocabulary list for module 3 Highlight unknown vocabulary. Create a mind map with important vocabulary (adjectives/verbs/nouns)
4	06/05/24	13/05/24	 Read through the vocabulary list for module 4 Highlight unknown vocabulary. Create a mind map with important vocabulary (adjectives/verbs/nouns)
5	13/05/24	20/05/24	 Read through the vocabulary list for module 5 Highlight unknown vocabulary. Create a mind map with important vocabulary (adjectives/verbs/nouns)
6	20/05/24	03/06/24	Create a set of flashcards with connectives/adjectives for each module.
7	03/06/24	10/06/24	Create a mind map with photo description vocabulary.

ASPIRING TO EXCELLENCE TOGETHER









Year 9 Spanish – PLC for End of Year exam (EoY)

READING & WRITING

	CONTENT	REVISED/ PRACTISED once?	REVISED/ PRACTISED twice?
TOPIC (vocab and	My Hobbies (Autumn 1)		
phrases)	The World of Work (Autumn 2)		
Viva 3 (rojo	Healthy Living (Spring 1)		
+ verde), Modulo 1-5	Youth in Action (Spring 2)		
	Mixed tenses (Past - Preterite & Imperfect, Future, Conditional) as well as Present		
KEY	Reflexive verbs ("se debe", "me duele")		
GRAMMAR	+ Using "tener que", "poder" and "se deberia"		
	Comparative (más/menos) and superlative (el más) descriptions		
	Reading activities (varied)		
	Answering questions (in Spanish)		TO THE SECTION OF THE SEC
EXAM SKILLS	Translation		
SKILLS	Photo description		
	Essay question (16 marks/4 bullet points)		

How to revise:

- ✓ write <u>practice essays</u> about each topic that use opinions and mixed vocab
- ✓ look through your book and <u>make mindmaps/lists/flashcards</u> of key vocab, phrases and grammar rules
- ✓ <u>online sites/apps</u> (e.g. Quizlet.com, Memrise / Duolingo / BBC Bitesize Spanish)
- ✓ frequently test yourself on topic vocab using LOOK-SAY-COVER-WRITE-CHECK
- ✓ ask someone at home to test you on vocab and phrases

Opiniones

¿Qué cosas te gustan?

¿Qué cosas te encantan / te chiflan / te flipan / te molan?

Me gusta(n)...

Me encanta(n) / Me chifla(n) /

Me flipa(n) / Me mola(n)...

No me gusta(n) (nada)...

el baile / el cine

el deporte / el dibujo

el racismo / el teatro

la moda / la música

la naturaleza / la pesca

la violencia

los cómics

los insectos

los lunes

las artes marciales

las injusticias

las tareas domésticas

En mi tiempo libre

Hago judo / natación.

Voy al parque / polideportivo.

Voy de pesca.

Soy miembro de un club / un equipo.

Expresiones de frecuencia

a veces

dos veces a la semana

muy a menudo

casi todos los días

todo el tiempo

siempre

Opinions

What things do you like?

What things do you love?

I like...

I love...

I don't like... (at all).

dance / cinema

sport / drawing

racism / theatre

fashion / music

nature / fishing

violence

comics

insects

Mondays

martial arts

injustice

household chores

In my free time

I do judo / go swimming.

I go to the park / sports centre.

I go fishing.

I am a member of a club / a team.

Expressions of frequency

sometimes

twice a week

very often

almost every day

all the time

Always

¿Cómo organizas tu semana?

Bailo Zumba®.

Cocino para mi familia.

Escribo canciones.

Juego en mi consola.

Leo revistas / libros.

Monto en bici.

Navego por Internet.

Preparo la cena.

Saco fotos.

Toco el teclado.

Veo un partido de fútbol.

¿Cuándo?

después del insti(tuto)

este fin de semana

los fines de semana

los lunes / martes

los jueves por la tarde

mañana por la tarde

Cartelera de cine

Voy a ver...

una comedia

una película de acción

una película de animación

una película de aventuras

una película de ciencia ficción

una película de fantasía

una película de superhéroes

una película de terror

¿Vas a venir?

¿Vamos a ver?

How do you organise your week?

I dance Zumba.

I cook for my family.

I write songs.

I play on my games console.

I read magazines / books.

I ride a bike.

I surf the internet.

I prepare dinner.

I take photos.

I play the keyboard.

I watch a football game.

When?

after school

this weekend

at weekends

on Mondays / Tuesdays

on Thursday afternoons

tomorrow afternoon

What's on at the cinema

I am going to see...

a comedy

an action film

an animated film

an adventure film

a science-fiction film

a fantasy film

a superhero film

a horror film

Are you going to come?

Are we going to see ...? / Shall we see ...?

Reacciones

Claro que sí.

De acuerdo.

(No) voy a ir.

No, gracias.

¿Estás loco/a?

¡Ni en sueños!

¡Qué rollo!

Reactions

Of course.

All right.

I am (not) going to go.

No thanks.

Are you crazy?

Not a chance!

How boring!

¿Qué tipo de películas te gustan?

Me encantan las comedias.

No me gustan las películas de terror.

Mi película favorita es...

¿Qué tipo de película es?

Es una comedia.

En mi opinión...

Creo / Pienso que...

What type of films do you like?

I love comedies.

I don't like horror films.

My favourite film is...

What type of film is it?

It is a comedy.

In my opinion...

I think (that)...

¿Cómo fue tu cumpleaños?

Celebré mi cumpleaños con mi

familia / mis amigos.

¿Qué hiciste?

Fui / Fuimos al parque de atracciones.

Invité a mis amigos a pasar la

noche en mi casa.

Bebí / Bebimos refrescos.

Comí / Comimos tarta de cumpleaños.

Recibí muchos regalos.

Fue alucinante / increíble.

How was your birthday?

I celebrated my birthday with my

family / friends.

What did you do?

I / We went to the theme park.

I invited my friends to sleep over at my house.

I / We drank soft drinks.

I / We ate birthday cake.

I received lots of presents.

It was amazing / incredible.

Palabras muy frecuentes

así que

casi

primero

High-frequency words

so, therefore

nearly, almost

first

luego

después

más tarde

0

por supuesto

quizás

también

además

Module 2

Los trabajos en el hotel

Soy...

camarero/a

cocinero/a

dependiente/a

esteticista

jardinero/a

limpiador(a)

peluquero/a

recepcionista

¿En qué consiste tu trabajo?

Tengo que...

contestar al teléfono y ayudar a

los clientes

cortar el pelo a los clientes

cuidar las plantas

hacer manicuras

limpiar habitaciones

preparar comida

servir la comida en el restaurante

vender productos en la tienda

then

afterwards

later

or

of course

perhaps, maybe

also, too

in addition, furthermore

Hotel jobs

I am...

a waiter

a cook

a shop assistant

a beautician

a gardener

a cleaner

a hairdresser

a receptionist

What does your job involve?

I have to...

answer the phone and help

customers

cut customers' hair

look after the plants

do manicures

clean rooms

prepare food

serve food in the restaurant

sell products in the shop

Opiniones

¿Te gusta tu trabajo?

(No) Me gusta (nada)

mi trabajo porque es...

difícil

duro

estimulante

estresante

interesante

monótono

repetitivo

¿Cómo es tu jefe?

Mi jefe/a (no) es muy educado/a.

¿Cómo son los clientes?

Los clientes son exigentes / maleducados.

Mis compañeros (no) son simpáticos.

Opinions

Do you like your job?

I (don't) like my job (at all)

because it is...

difficult

hard

stimulating

stressful

interesting

monotonous

repetitive

What is your boss like?

My boss is (not) very polite.

What are the customers like?

The customers are demanding / rude.

My colleagues are (not) nice.

¿Cómo eres?

En mi opinión, soy...

Creo / Pienso que soy...

Soy muy / bastante...

ambicioso/a

creativo/a

independiente

inteligente

organizado/a

paciente

práctico/a

responsable

serio/a

sociable

trabajador(a)

What are you like?

In my opinion, I am...

I think I am...

I am very / quite...

ambitious

creative

independent

intelligent

organised

patient

practical

responsible

serious

sociable

hard-working

¿En qué te gustaría trabajar?

Me gustaría ser...

Quiero ser...

abogado/a

cantante

diseñador(a)

enfermero/a

mecánico/a

periodista

policía

taxista

Me gustaría...

No me gustaría (nada)...

trabajar al aire libre

trabajar con animales

trabajar con niños

trabajar en equipo

trabajar en una oficina

trabajar solo/a

hacer un trabajo creativo

hacer un trabajo manual

¿Cómo va a ser tu futuro?

En el futuro...

Voy a...

ganar mucho dinero

hacer un trabajo interesante

ir a la universidad

ser famoso/a

ser voluntario/a

tener hijos

viajar (mucho)

vivir en el extranjero

What job would you like to do?

I would like to be ...

I want to be...

a lawyer

a singer

a designer

a nurse

a mechanic

a journalist

a police officer

a taxi driver

I would like...

I wouldn't like... (at all)

to work in the open air

to work with animals

to work with children

to work in a team

to work in an office

to work alone

to do a creative job

to do a manual job

What is your future going to be like?

In the future...

I am going to...

earn lots of money

do an interesting job

go to university

be famous

be a volunteer

have children

travel (a lot)

live abroad

Va a ser (muy) interesante.

It is going to be (very) interesting.

Describe tu trabajo

¿En qué trabajas?

¿Por qué decidiste ser...?

Me gusta mucho... y por eso

decidí ser...

Estudié... y me encantó.

¿Cómo es un día de trabajo típico?

Hablo con clientes.

Leo mi agenda.

Preparo mis cosas.

Trabajo con mi equipo.

Voy a la oficina.

¿Qué cualidades tienes que tener?

Tienes que ser...

En mi trabajo, los idiomas son

muy importantes.

Hablo español, alemán e

inglés.

¿Cuáles son tus ambiciones

para el futuro?

Voy a estudiar / trabajar en...

¡Va a ser guay / fenomenal /

flipante!

Describe your job

What do you do for a living?

Why did you decide to be a ...?

I really like... and so I decided

to be a ...

I studied... and I loved it.

What is a typical working day like?

I talk to customers.

I read my diary.

I prepare my things.

I work with my team.

I go to the office.

What qualities do you need to have?

You need to be...

In my job, languages are

very important.

I speak Spanish, German and English.

What are your future ambitions?

I am going to study / work in...

It is going to be cool / fantastic /

awesome!

Palabras muy frecuentes

mi/mis

tu/tus

además

más

a veces

también

High-frequency words

my

your

in addition, furthermore

more

at times

also, too

a ver/bueno/pues

por eso

así que

primero

luego

sin embargo

¿Llevas una dieta sana?

Llevo una dieta sana.

Me gusta (bastante / mucho)

el pan.

Me gustan las galletas.

No me gusta(n) (nada)...

el arroz / el pan

el pollo / el pescado

la carne / la ensalada

la pasta / la pizza

los caramelos

los huevos

los pasteles

las galletas

las verduras

Como / Comí verduras.

Bebo / Bebí agua.

well

so / therefore

so / therefore

first

then

however

Do you have a healthy diet?

I have a healthy diet.

I (quite / really) like bread.

I like biscuits.

I (really) don't like... (at all).

rice / bread

chicken / fish

meat / salad

pasta / pizza

sweets

eggs

cakes

biscuits

vegetables

I eat / ate vegetables.

I drink / drank water.

¿Con qué frecuencia comes pescado?

Lo/La/Los/Las como...

tres veces al día

cada día / todos los días

dos veces a la semana

los fines de semana

una vez al mes

muy a menudo

How often do you eat fish?

I eat it/them...

three times a day

every day

twice a week

at weekends

once a month

very often

a veces

sometimes

de vez en cuando

from time to time

(Casi) nunca lo/la/los/las como.

I (almost) never eat it / them.

¿Qué haces para estar

What do you do to keep fit?

en forma?

Me gusta mucho hacer deporte.

I really like doing sport.

Hago artes marciales.

I do martial arts.

Hago atletismo.

I do athletics.

Hago footing.

I go jogging.

Hago gimnasia.

I do gymnastics.

Hago natación.

I go swimming.

Juego al baloncesto.

I play basketball.

Juego al ping-pong.

I play table tennis.

Juego al tenis.

I play tennis.

Juego al voleibol.

I play volleyball.

Juego a la pelota vasca.

I play pelota (Basque ball game).

...en el parque / gimnasio

Soy miembro de un club.

...in the park / gym

Voy al polideportivo.

I belong to a club.

Voy a clases de baile.

I go to dance classes.

Prefiero jugar al fútbol.

I prefer playing football.

I go to the sports centre.

Es mi deporte preferido.

It is my favourite sport.

Empecé (a jugar)

I started (playing)...

a los (diez) años

at the age of (ten)

Voy a empezar a (hacer)...

I am going to start (doing)...

MODULE 3 EN FORMA

¿Cuál es tu rutina diaria?

What is your daily routine?

me despierto (muy temprano /

at 7 o'clock)

a las siete)

at 7 0 crocky

me levanto (enseguida)

I get up (straight away)

I wake up (very early /

me lavo los dientes

I brush my teeth

me ducho

me visto

me acuesto

desayuno

meriendo

ceno (...)

salgo (a correr)

corro (veinte kilómetros)

entreno

voy al insti / trabajo

Termino (a las dos)

duermo (ocho horas)

Consejos para estar en forma

Para estar en forma...

Se debe...

beber agua frecuentemente

comer más fruta y verduras

comer menos chocolate /

caramelos

dormir ocho horas al día

entrenar una hora al día

No se debe...

beber alcohol

beber muchos refrescos

comer comida basura

fumar

Soy adicto/a al / a la / a los /

a las...

A partir de ahora, voy a...

I shower

I get dressed

I go to bed

I have breakfast

I have an afternoon snack

I have (... for) dinner

I go out (running)

I run (twenty kilometres)

I exercise / train

I go to school / work

I finish (at two o'clock)

I sleep (for eight hours)

Advice for keeping fit / in shape

To keep fit / in shape...

You / One must...

drink water frequently

eat more fruit and vegetables

eat less chocolate /

fewer sweets

sleep for eight hours a day

train for one hour a day

You / One must not...

drink alcohol

drink lots of soft drinks

eat junk food

smoke

I am addicted to...

From now on, I am going to...

¿Qué tal estás?

How are you?

¿Qué te duele?

¿Te duele el estómago?

Me duele el brazo / el estómago /

el pie.

Me duele la cabeza / la espalda /

la garganta.

Me duele la mano / la pierna.

Me duelen los dientes.

Me duelen los oídos.

Me duelen los ojos.

Tengo catarro.

Tengo náuseas.

Tengo quemaduras de sol.

Tengo tos.

Estoy cansado/a.

Estoy enfermo/a.

No me encuentro bien.

What hurts?

Does your stomach hurt?

My arm / stomach / foot hurts.

My head / back / throat hurts.

My hand / leg hurts.

My teeth hurt.

My ears hurt / I have earache.

My eyes hurt.

I have a cold.

I feel sick / nauseous.

I have sunburn.

I have a cough.

I'm tired.

I'm ill.

I don't feel well.

Palabras muy frecuentes

lo / la

los / las

casi

cada

todo/a/os/as

mucho/a/os/as

ayer

hace (dos) años

el fin de semana pasado

la próxima vez

para

creo que

High-frequency words

it

them

almost / nearly

each / every

all

a lot (of)

yesterday

(two) years ago

last weekend

next time

(in order) to, for

I think that

Mis derechos

Tengo derecho...

al amor y a la familia

al juego

a la educación

a la libertad de expresión

a un medio ambiente sano

a vivir en armonía

No puedo...

dar mi opinión

jugar con mis hermanos

salir solo/a

dormir

ir al insti(tuto)

respirar

porque...

Soy un(a) chico/a

tengo que ganar dinero

hay mucha violencia

en mi ciudad

mi padre grita mucho

tengo que trabajar

el aire está contaminado

No es justo porque...

Es inaceptable porque...

My rights

I have the right...

to love and to family

to play

to education

to freedom of expression

to a healthy environment

to live in harmony

I cannot...

give my opinion

play with my brothers and sisters

go out alone

sleep

go to school

breathe

because...

I am a boy/girl

I have to earn money

there is a lot of violence

in my city

my dad shouts a lot

I have to work

the air is polluted

It isn't fair because...

It is unacceptable because...

¡Reciclamos!

¿Qué se debería hacer para proteger el medio

ambiente?

Para proteger el medio ambiente,...

Se debería...

ahorrar energía en casa

Let's recycle!

What should you/we do to protect the

environment?

In order to protect the environment,...

You/We should...

save energy at home

apagar la luz

cerrar el grifo

conservar el agua

desenchufar los aparatos eléctricos

ducharse en vez de bañarse

ir en bici(cleta)

reciclar el papel / el plástico /

el vidrio

usar transporte público

No se debería...

malgastar el agua

tirar la basura al suelo

usar bolsas de plástico

turn off the light

turn off the tap

save water

unplug electrical devices

have a shower instead of a bath

go by bike

recycle paper / plastic / glass

use public transport

You/We shouldn't...

waste water

throw rubbish on the ground

use plastic bags

Mi ciudad

¿Cómo era tu ciudad antes?

Antes...

era (bastante) aburrida

era (muy) peligrosa

estaba sucia

había mucha basura

había mucha contaminación

había mucha violencia

no había medios de transporte

público

no había nada para los jóvenes

My town / city

What was your town / city like before?

Before...

it used to be (quite) boring

it used to be (very) dangerous

it used to be dirty

there used to be a lot of rubbish

there used to be a lot of pollution

there used to be a lot of violence

there didn't use to be means of

public transport

there didn't use to be anything for

young people

What is it like now?

Now...

it is clean

there is less rubbish

there is less pollution

¿Cómo es ahora?

Ahora...

está limpia

hay menos basura

hay menos contaminación

hay parques y espacios públicos

muy bonitos

hay una red de transporte muy

buena

hay muchas cosas para los

jóvenes

no tiene barrios peligrosos

there are very nice parks and

public spaces

there is a very good transport

network

there are lots of things for young

people

it doesn't have dangerous

neighbourhoods

Palabras muy frecuentes

mi/mis

su/sus

nuestro/a/os/as

más... (que)

menos... (que)

para

hay

había

a partir de ahora

además

High-frequency words

my

his/her/their

our

more... (than)

less... (than)

(in order) to / for

there is / there are

There was / were / used to be

from now on

in addition, furthermore



Year 9 Computer Science Independent Learning Revision

Homework	Set	Due wb	Task and pages	
1	15/04/24	22/04/24	Systems Architecture Write down key words and definitions Try not to use your knowledge organiser to help you Use your green pen to check your work	
2	22/04/24	29/04/24	Memory and Storage Use your knowledge organiser to condense and write down key facts and information your flash cards add pictures. • self-quiz yourself the flash cards. You can write questions one side and answers on the other • Ask a parent/carer/friend to quiz you on your knowledge using your flash cards Wired and Wireless Networks	
3	29/04/24	06/05/24	Wired and Wireless Networks Use your knowledge organiser to create a mini quiz. Write down questions using your knowledge organiser • Answer the question and remember to use full sentence • Keep self-quizzing until you get all answers correct	
4	06/05/24	13/05/24	Programming techniques Create a mind map with all the information you can remember from your knowledge organiser Check your knowledge organiser to see if there were any mistakes with the information you have made. Try to make connections that links information together	
5	13/03/24	20/05/24	Data representations Ask a family member or friend to have the knowledge organiser in their hands They can test you by asking questions on different sections of your knowledge organiser. Write down your answers	
6	20/05/24	03/06/24	Internet safety Look at and study a specific area of your knowledge organiser Cover the knowledge organiser and write down everything you remember. Check what you have write down. Correct any mistakes in green pen and add anything you missed. Repeat.	
7	03/06/24	10/06/24	Spreadsheets Complete the crossword Create your own cross word using keywords :IF, COUNTA, COUNTBLANK, COUNT, CELL REFERENCE, ABSOLUT CELL REFRENCE	

Please also remember to check Seneca Learning for revision tasks to complete for the examinations

ASPIRING TO EXCELLENCE TOGETHER









 Understand what the CPU is, how it works and how its performance is measured 				
Data representation	©	(2)	8	
 Understand how to convert denary to binary Understand how to convert binary to denary Understand how to Add in binary Understand how to convert binary to ASCII Understand how to convert binary to Hex Understand how an image is represented in a computer Understand how to Convert binary numbers to images Understand how computers represent sound waves 				
Logic gates				
Internet Safety				
Identify what is personal information				
Cyberbullying				
 Grooming- awareness of online behaviours, in order to stay safe on the web. 				
 Know how to report concerns 				
 Recognise inappropriate contents 				
Spreadsheets				
 Format your spreadsheet. 				
 Use basic formulas such as +/*- correctly 		į,		
Use sum function				
Use average function correctly				
Use max function correctly				
Use min function correctly				=
Create a graph using given data				
 Correctly label the graph. 				

SYSTEMS ARCHITECTURE

KEY CONCEPTS

DECON TECHNOLOGICA SECURITARIA PARA EATH VALUE AND SECURITARIA SECURITARIA SECURITARIA SECURITARIA SECURITARIA

- Computer systems take data (input), process it and then output it.
- Embedded systems are computers built in to other devices like washing machines. They are dedicated to a single task so they are efficient.
- Clock speed: the number of instructions a processor can carry out per/second. Higher clock speed = faster CPU.
 - Number of **Cores**: The more cores a CPU has the more instructions it can carry out at once (multitasking). More cores = faster processing.
- to more data

FETCH - DECODE - EXECUTE CYCLE

MANN THESE THESE WITH THESE WITH THESE THESE THESE THESE STORN THESE THESE STORN THESE THE

CPU fetches instruction from the RAM (Copies memory address to MAR, copies Instruction to MDR & adds 1 to PC. CU decodes the instruction from the MDR Instruction is executed by the CU The next instructions is fetched and The cycle repeats.





EXAM QUESTIONS

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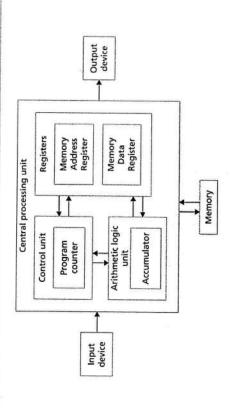
- Explain how cache size, cores and clock speed affect the performance of the CPU.
- 2. Define what is meant by an embedded system
- 3. What is the purpose of the ALU?
- 4. Explain the role of the CPU registers (MAR and MDR)
- 5. Explain how the fetch decode execute cycle works

THE CENTRAL PROCESSING UNIT (CPU)

TOOK THING STORK S

VALED V

10,000



Control Unit (CU): executes instructions and controls the flow of data in the CPU.

Program counter: holds the memory address for the instruction of each cycle.

Arithmetic Logic Unit (ALU): does all of the calculations and logic operations.

Accumulator: holds the result of any calculations
in the ALU.

Cache: very fast memory that stores regularly used
data so that the CPU can access it quickly.

MAR (Memory Address Register): holds the address about to be used by the CPU.

MDR (Memory Data Register): holds the actual data
or instruction being processed by the CPU.

WIRED AND WIRELESS NETWORKS

Key Terms

A network is where devices have been connected together so that they can share data and resources. Networks can be wired (Ethernet) or wireless (Wi-Fi).

Local Area Network (LAN)	Cover a small geographical area such as an office. Use their own infrastructure.
Wide Area Network (WAN)	WANs connect LANs together over a large geographical area and make use of infrastructure from telecommunications companies.
Bandwidth	The amount of data that can pass between network devices per second
Server	A device that provides services for other devices (e.g. file server or print server)
Client	A computer or workstation that receives information from a central server
Peer to peer Network	All of the computers in the network are equal. They connect directly to each other.
Standalone computers	A computer not connected to a network

NETWORK HARDWARE

Network Interface Controller (NIC): built in hardware that allows a device to connect to a network.

Switches: connect devices on a LAN

Router: Transmits the data (packets) between the networks (eg: the internet and your LAN)

Wireless Access Point (WAP): a switch that allows devices to connect wirelessly.

Cables: the cables in a network can be twisted pair cables, coaxial cables or fibre optic cables.

NETWORK PERFORMANCE

ACTOR STATES CENTER TOOMS WHICH TOOMS WHICH TOOMS THAT TO WHICH TOOMS STATES WHICH TAKES THAT THE TOOMS THAT

DOOR STORE STORE THE

NAME OF TAXABLE PARTY.

These factors can impact on network performance: Bandwidth: The more bandwidth, the more data that can

be transferred at a time.

Number of Users: Having a lot of people using a network means lots of data is being transmitted which can slow it down. Transmission Media: Wired connections are faster than wireless. Fibre optic cables are faster than copper cables.

Wireless Factors: wireless can be affected by walls, distance, signal quality and interference from other devices. Topology: The layout of a network can impact on its performance.

VIRTUAL NETWORKS

A virtual network is part of a LAN or WAN where only certain devices can "see" and communicate with each other usually connected remotely.

WATER TANKS TANKS

STATES THE PARTY STATES STATES STATES AND ACCUSATION STATES STATES STATES STATES STATES STATES STATES STATES STATES

EXAM QUESTIONS

WHEN PERSON STATES AND PERSON.

- 1. Give 3 items of hardware needed for a network
- Explain the difference between a peer-to-peer network and a client server network.
- 3. The school's network has become very slow. Explain two different reasons why this might be.
 - 4. Evaluate the benefits of using a wired connection rather than a wireless one.

ATTER STATE STATE

DATA REPRESENTATION

DENARY

Denary is the decimal number system that we uses the numbers 0-9 and the column headings go up in powers are used to. ij

DORTHO SP	IONN NA	NO MARKET
2 lots of 100	2	100 (Hundreds)
3 lots of 10	ω	10 (Tens)
8 lots of 1	8	1 (Units)

BINARY

THE REAL STATE SAME SCALE

Binary uses in power of the 2: numbers 0 and 2. The column headings go q

BO RECENT	nerket 1600	DE TRANSFE
64 + 4 +	0	128
2 + 1	ъ	64
= 71	0	32
	0	16
	0	8
	1	4
	1	2
	Ь	1

HEXADECIMAL

THE REAL PROPERTY. HARD DAYS MANY

Hexadecimal uses 0- F

The headings go up in powers of 16 (A=10, B=11, C=12, D=13, E=14, F=15).

3 lots of 16	3	16
D (13) lots of 1	D	1

ľ			
	8	_	ω *
	48+13=61	(13)	16
	6	J	П
	_	"	48
		П	
		13	

convert a binary number to Hexadecimal, split into 2:

7

Н	Н	0	0
1	2_	4	8

Н	8
Н	4
0	2
ы	1

II D

П

W

BINARY ADDITION

ACES THE COST TOTAL STATE STAT

0 0

0

0

in 8 bits (a byte). as the total does not fit gives an overflow error This binary addition

IMAGES

1902 COSE 1905 1905 1909 COSE 1905 COSE 1905 COSE 1905 COSE 1906 C

Images are made up of pixels

only have 2 colours: If an image uses 1 bit to represent each colour then it will The colour of each pixel is represented by a binary number

9	1 0	1 1	1 0	0
0	0	1	0	0
0	0	1	0	0
1	0	1	0	1
0	1	1	1	0
0	0	1	0	0

0

0

0

0

0

M=0	0.5	1
ite	itι	1
and	uses	٥
	2 0	1-0.
= b1a	2010	,
Š.	olours	Plinds

Using more bits allows for more colour options:

11 11 11 11 11
1 11 11 11 11 16 16

1=blue, 10=red, 0=white, mages so it uses his is a 2-bit colours

Colour depth = the number of bits used for each pixel

there are more pixels in the image so it will have a higher measured in "dots per inch". Resolution = how many pixels are in a certain space - this is resolution and a better picture quality. If there are more dots per inch then

so the bigger the file size. The higher the resolution or the colour depth, the more bits used,

Metadata = the information about the image file that is stored This makes sime the file is displayed

Key Terms

calculations to predict what is likely to happen based on A program which has been developed to mimic a real life Software includes Microsoft Excel and Google Sheets. data recorded about what actually did happen in the past. system. Spreadsheets use mathematical formulas and

called a range. One box on a spreadsheet. A group of cells together is

of the Column letter and Row number, e.g. A1 The unique 'address' of a cell on a spreadsheet, made up

A group of cells that are next to each other, e.g. A2:B6

it with a small dot called the fill handle in the bottom right The currently selected cell. It has a thick black line around

A group of cells 1 cell wide going from the top to the Excel, these are the numbers down the left side of the A group of cells 1 cell high going across a worksheet. In

4 8 2

This is a piece of text that explains what the data in the bottom of a worksheet. In Excel these are the letters going across the top of the page.

to other cells using the fill handle. E.g.\$D\$3 Refers to a specific cell and doesn't change when copied

pie, line, scatter, area, radar, bar, radar etc lots of types which are useful for different reasons, e.g. A picture of data made from a range of cells. There are

A table that explains which data is represented by

combines numbers, mathematical operators and Used in a spreadsheet cell, this starts with an '=' and functions to manipulate data

of numbers. They always look like =FunctionName(Details the function needs). Tooltips will appear as you type them tasks, like finding the average, highest and lowest of a set Copies the contents of a cell or range of cells into others to tell you what details that function needs. These are built in to spreadsheets and perform standard

data a cell contains. Changes what a cell looks like based on rules about the by dragging the fill handle in the bottom right of the active

Key Facts / Methods / Processes/Questions

Where are Computer predict how financial markets are going to change, to see whether car components will fit together before they are made performance in exams, they are used to predict the weather, to Computer models are used in schools to predict student

Models used?

Spreadsheets are very good at processing data and then chart makes it much easier to understand, which makes it more presenting it in graphical form. Presenting data in the form of a persuasive than a table of numbers.

used in computer

low are spreadsheets

Cell references begin wit letter, and finish with number. EG: A1

A B C D E F

		ဖ	a 7-
J	ы		Ar
1		A	A range is a selection of cells
		В	. Si a
		C	s a se
		0	lect
		Е	in on
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v	4	w	2	1	
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Golden rule: every formula always starts with an =

Name of the formula

See below for common formulae. Normally written in capitals.

=SUM(B10:B23)

= sign

An equal sign tells Excel that the cell contains a formula.

be selected by clicking and dragging. The range used in the formula. This can The selected range

Cell Formatting

Adjusting column width and row height	Border	Font	Alignment	Number
To adjust a column's width or a row's height, move your mouse cursor between two columns or rows. Click and drag to resize. To automatically resize a row to fit the data entered in a cell, double-click between the current row and the row after it.	- add a solid, dotted, dashed or coloured border to the cell	change the font used, text size and colour	align the text in the cell vertically (top, bottom or middle), horizontally (left or right) or at an angle	tell the spreadsheet what type of data the cell contains, eg currency, percentage, date, time, etc

and to see if a business is making enough money to stay open. Min Max Aver-

stock falls below 20 then monitor stock levels. If 3) Add an IF function to calculate the total stock 2) Use a function to 'Re-Order' or

matting on the Re-Order 4) Add conditional for-No Action'. products sold

Modelling Data

Example Question age for the price of the 1) Begin by calculating を言うの記

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Average	May	Men	Darsy Tableware Portmerson	Daisy Tabelward	Days Tableware	Date Pots with Flowers	Darg Persume Rang	Carry Prendent	Owen Paper	Designifequation	Dairy Lip Gloss	DesgFierre	Duty Fragunde	Daysy Flower	Davis Ontid-louse	DaisyDoll	Der Diger Cover	Oursy Strekers	Date Cushkan	Class Chattenge Game	DesigCardi	DaisyCard	Description
16,2755	78	199	78	45.5	19.5	6.1	20	15.99	1.39	3.5	3.5	11.5	25.99	25	52	8.5	750	230	6.59	5.29	199	139	Price
		Stock Total	9	6	94	OX.	Di Di	22	22	29	UK	22	12	24	22	8	2	56	25	78		35	Stock
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			#Order	MO-der	Inchist of	NO Action	NO Acron	in Acres of	ADPLICA OF	40 Auton	do Autopo	doctyly ce.	40 Acrica	ecount Co.	do Acron	PO ON	do Agrica	do Auton	do Aution	SOUTH OF	HOOM	APP CPE	Re-order Stoc

Common Functions

= count()	= max()	= min()	= average (= sum ()	COLUMN DESCRIPTION DE LA COLUMN
Counts how many cells meet a condition, e.g. count(A:A, "April") would return the number of times the word April (with a capital letter), occurs in column A	Returns the highest value in the range	Returns the smallest value in the range	Finds the average for a range of cells	Adds a range of cells together.	

VLOOKUP	COUNTIF-	F
matches contents of a cell with an answer, eg how much is a pepperoni pizza?	adds up cells that meet a certain rule, eg count the number of students that achieved level 6.	change the value of a cell if something is true, eg if a customer's total bill is over £100, deduct 10% from their bill.

Charts & Graphs























Charts and graphs provide a visual representation of data, which can often be easier to understand.







Scatter Charts

There are several types of charts and present data—You must always consider which would be a suitable chart or graph for your model. PIE CHART - show the individual parts that make up a whole LINE GRAPH - to show a change over time SCATTER GRAPH - look for a pattern or link between two sets of data BAR CHART - compare things that aren't directly related

Year 9 Religious Education Independent Learning Revision

Homework task	Set	Due week beginning	Task and pages
1	15/04/24	22/04/24	Create a revision material that demonstrates you have revised Y7 content (Abrahamic religions-Christianity, Islam & Judaism)
2	29/04/24	06/05/24	Create a revision material that demonstrates you have revised Y8 content (Dharmic religions – Hinduism, Buddhism, Sikhism)
3	13/05/24	20/05/24	Rewrite a perfect 4 marks answer to the "Explain two similar religious beliefs in contemporary British society that are used to oppose animal experimentation. (4 marks)

Topics to revise:

- 1. Religion and Life
- 2. Religion Peace and Conflict
- 3. Religion, Crime and Punishment
- 4. Philosophy

^{*} Previous Y7 & Y8 content (Abrahamic Religions – Christianity, Judaism & Islam) + (Dharmic Religions – Hinduism, Buddhism & Sikhism)

Please also remember to check Seneca Learning for revision tasks to complete for the examinations.



* Previous Y7 content (Abrahamic Religions – Christianity, Judaism & Islam) + Previous Y8 content (Dharmic Religions – Hinduism, Buddhism & Sikhism)

<u>Homework task 1:</u> Read through the knowledge organisers for Christianity, Islam and Judaism. Create a revision tool/ resource that will help you remember Y7 topics.

Previous Y7 content (Abrahamic Religions - Christianity, Judaism & Islam)

	Judaism – Knowledge Organis	er in the state of
1	How old is it?	Judaism began nearly 4,000 years ago in a place called the Middle East.
<u>2</u>	Where did it originate?	The Middle East is a large area on the border of Asia, Africa and Europe.
3	Percentage of the UK population?	0.46% of the population of England and Wale
4	What is the name of its Holy Book(s)?	 Tanakh or Hebrew Bible The Torah (T) which is the first five books of the Hebrew Bible. The Christian Bible also begins with these books, in the part which Christians call the Old Testament. The Nevi'im (N) which are the books of the Jewish prophets such as Joshua and Isaiah. Ketuvim (K) which is a collection other important writings.
<u>5</u>	Name of G-d.	G-d, L-rd (the letter "o" is removed as a sign of respect in Judaism and many other religions) Other names include Yahweh Jehovah
<u>6</u>	A key belief is (name at least two)	Abraham Important prophet- Abraham was the first person to make a covenant with God. Moses is the most important Jewish prophet. The Torah has 613 commandments which are called mitzvah. They are the rules that Jews to follow.

7 8	Name a place of worship Name a type of worship	 The most important ones are the Ten Commandments given to Moses. Eating Kosher foods and following dietary laws. Synagogue on Saturdays 13 years old boys - Bar Mitzvah (Son of the
		Commandment). 12-13 year old girls - Bat Mitzvah (Daughter of the Commandment).
9	Name a sacred land/country	Israel in the Holy City of Jerusalem
10	Name at least one religious festival/ tradition	 Passover Rosh Hashanah Yom Kippur Seder plate Respecting Sabbath day (ceasing from work)
11	Name the different denominations (types) of Judaism.	Traditional (also known as Orthodox) and Progressive (also known as Reform). Ashkenazi Conservative



	Christianity - I	Knowledge Organiser
1	How old is it?	Over 2,000 years
2	Where did it originate?	Palestine
3	Percentage of the UK population?	38% (approx.)
4	What is the name of its Holy Book(s)?	Bible
5	Name of God(s)	God
6	A key belief is (name at least two)	Trinity (God is the Father, Son and Holy Spirit) Heaven and Hell
		Birth, Death and Resurrection of Jesus Christ
7	Name a place of worship	Church
8	Name a type of worship	Eucharist (bread and wine to remember Jesus' sacrifice) Mass (Catholic form of worship) Singing Prayer
9	None a second for the	Lighting Candles
10	Name a sacred land/country	Israel
10	Name at least one religious festival/tradition	Easter Christmas Lent Christingle
11	Name the different denominations (types) of Christianity.	Catholic Christians Anglican Orthodox Christians Methodist Baptist Pentecostal Seventh-Day Christians Mormons



	Islam- Kno	wledge Organiser
1	How old is it?	Founded in 570AD
2	Where did it originate?	Saudi Arabia
3	Percentage of the UK population?	4.3% (approx)
4	What is the name of its Holy Book(s)?	Qur'an
5	Name of God(s)	Allah
6	A key belief is (name at least two)	Tawhid (One God) Risalah (guidance from Holy Book) Eating Halal food
7	Name a place of worship	Mosque
8	Name a type of worship	 Salah (to pray) five times a day Friday is a special day as a sermon is given during midday prayer
9	Name a sacred land/country	Mecca, city, western Saudi Arabia,
10	Name at least one religious festival/ tradition	Eid al-Fitr marks the end of Ramadan, Eid-ul-Adha marks the end of the annual pilgrimage to Mecca (Hajj). It is a day of sacrifice and forgiveness. Families come together, visit the mosque, offer special prayers Fasting during Ramadan
11	Name the different denominations (types) of Islam.	Following Prophet Muhammed's death , Muslims split of Islam
		into Sunni and Shia Muslims.



1	How old is this religion?	nowledge Organiser Over 4000 years plus
*	Trow old is this religion:	over 4000 years plus
2	Where did it originate?	It originated (began) in the Indus Valley Civilisation in North West India. Today that region is known as Pakistan .
3	Percentage of the UK population?	1.7% (approx.)
4	What is the name of its Holy Book(s)?	Hinduism does not have a single holy book, but many ancient texts and scriptures. 1. The Vedas - a collection of hymns praising the Vedic gods. Veda means 'knowledge'. 2. The Ramayana - long epic poems about Rama and Sita. 3. The Mahabharata - which includes the Bhagavad Gita. 4. The Puranas - a collection of stories about the different incarnations and the lives of saints
5	Name of God(s)	Polytheistic – belief in many Gods
6	A key belief is (name at least two)	Central to Hinduism is the belief in a supreme God Brahman. Brahman is present everywhere and there is a part of Brahman in everyone. Brahman takes many forms. Especially three forms called the Trimurti. Brahma is the creator of the world and all creatures. He is usually shown with four heads. Vishnu is the preserver of the world. His role is to return to the earth in troubled times and restore the balance of good and evil. He has blue skin and four arms. Shiva is the destroyer of the universe.

		blue skin, a third eye and carries a trident.
7	Name a place of worship	Hindus worship in a temple called a Mandir . Mandirs vary in size from small village shrines to large buildings, surrounded by walls.
		People can also visit the Mandir at any time to pray and participate in the bhajans (religious songs).
		Hindus also worship at home and often have a special room with a shrine to particular gods.
8	Name a type of worship	Meditation, prayer, singing of hymns and reading scripture. Home worship in front of a shrine.
9	Name a sacred land/country	River Ganges (India)
10	Name at least one religious festival	Diwali Holi
	Hindu prayers	 The Bhagavad-Gita 9: 26: 'If anyone offers me A leaf, flower, fruit or water with devotion, I accept that gift from the giver who gives himself.' Rig Veda 3. 6. 10:







	Buddhism – k	Cnowledge Organiser
1	How old is this religion?	2,500 years old
2	Where did it originate?	Nepal (Northern India)
3	Percentage of the UK population?	0.5% (approx.)
4	What is the name of its Holy Book(s)?	The Buddhist scriptures are known as the Tipitaka which means 'three baskets'. Sutras
5	Name of God(s)	No God Siddhartha Gautama became known as the Buddha, which means the 'awakened' or 'enlightened' one. From then on, he dedicated his life to spreading his teachings.
6	A key belief is (name at least two)	Enlightenment Dukkha Nibbana Ending suffering
7	Name a place of worship	Viharas – Buddhist temples Buddhists will take off their shoes, put their hands together and bow to the image of the Buddha. They may also use prayer beads called malas. Some Buddhists may also have a shrine within their home too.
8	Name a type of worship	Meditation, prayer, chanting, scripture
9	Name a sacred land/country	Places around India such as Lumbini or Bodhgaya (places of pilgrimage- religious journeys)
10	Name at least one religious festival	Wesak Katina Pari nirvana Day



1	Sikhism - Kn	owledge Organiser
1	How old is it?	15 th century (Guru Nanak, the founder of
		Sikhism was born in 1469)
2	Where did it originate?	India (Punjab region)
3	Percentage of the UK population?	1% (approx.)
4	What is the name of its Holy Book(s)?	Shabads
5	Name of God(s)	Waheguru
6	A key belief is (name at least two)	Mukti (freedom from rebirth) Gurmukh (god centred) Sikhs believe in one God who guides and protects them. They believe everyone is equal before God. Sikhs believe that your actions are important and you should lead a good life. They believe the way to do this is: > Keep God in your heart and mind at all times > Live honestly and work hard > Treat everyone equally > Be generous to those less fortunate than you > Serve others
7	Name a place of worship	Sunday service - Gurdwara
8	Name a type of worship	meditation, prayer, singing of hymns and reading scripture, chanting
9	Name a sacred land/country	The Golden Temple in Amritsar, India
10	Name at least one religious festival	Vaisakhi Gurpurbs

YEAR 9 – PLC Religion and Life



What do I need to know?	n gri	1970	
1.1 How did the Universe begin?	©	(2)	8
Outline various religious teachings about the origins of the universe			
Examine different interpretations of these origins			
Contrast scientific theories against religious views of the creation of the universe			
1.2 How do religious views on the environment differ?	©	⊜	8
Explain how the concepts of Stewardship and Dominion impact attitudes towards the environment	ê		
Analyse how religion can impact behaviour towards use and abuse of the environment: including pollution, natural resources, global warming and destruction of habitats			
Compare environmental approaches between Christianity, Buddhism, Islam			
1.3 Should all animals have rights?	©	(2)	8
Explain the concepts of animal rights and speciesism			
Analyse religious views towards animal experimentation			
Analyse religious views towards the use of animals for food			
1.4 Abortion: When Does Life Become Life?	0	@	8
Explore the value of human life in terms of sanctity of life and the quality of life			
Examine abortion from the pro-life and pro-choice view.			
Assess other issues arising from abortion such as what the law says and who decides			
1.5 How do religious attitudes towards life impact Euthanasia?	0	(2)	8
Outline the arguments for and against euthanasia			
Compare religious beliefs about death and the value of human life and how they relate to laws on euthanasia			
Evaluate whether euthanasia should be legalised in the UK			
1.6 What are religious beliefs about the afterlife?	0	(2)	8

Knowledge Organiser Year 9 Autumn 1: Religion and Life

	Religion and life
Religious views of the universe	Fundamentalist viewpoint- Some Christians believe the Bible is literally true. The stories in it happened word for word as it is written. For example the world
Creation- idea that God created the world/universe from nothing.	was created in 6 days. There are no errors in the Bible as it is the Word of God Himself.
Awe- an overwhelming feeling often of reverence with a link to God.	Metaphorical viewpoint - The Bible is a metaphor. It is a fictional story with a meaning / message behind it. For example the story of creation is just a myth and the meaning and symbolism behind that is important. The story of creation tells us about what God is like e.g. He is powerful as He created the world.
Scientific views of the universe	Science- knowledge coming from observed regularity in nature and experimentation.
	Evolution- change in inheritef traits in a species. Charles Darwin- the man who put forward the theory of evolution in the 19 th Century.
	Big Bang Theory- the scientific view of the beginning of the universe.
	Natural selection- one of the most basic mechanisms of evolution.
Attitudes towards the environment	Environment- the world around us. Dominion- the idea that humans have the right to control all of creation.
	Stewardship- duty to look after the world and life. Conservation- to repair and protect animals and areas of natural beauty.
	Sustainable energy- resources that are renewable e.g. solar, wind and nuclear power.
Vegetarianism	Buddhism & Hinduism – vegetarian ahimsa (non- violence) and respect for all life Sikhism- vegetarian to show resepct for God's creation and the Sikh langar (community kitchen) is always serves a vegetarian meal.
Animal rights	The idea that animals should have rights because of respect for life.

What is sanctity?	the intention to destroy it. Life is considered as special because God created life
What is meant by quality of	How good/comfortable life is.
life	How good/comfortable life is. Abortion Act 1967

There is danger to the woman's mental/physical health.

The foetus will be born with physical/mental disabilities.

The mental/physical health of existing children will be at risk.

1990 amendment - said abortion could only take place up until 24 weeks (6 months), **UNLESS** the mother's life is at risk.

Roman Catholics believe abortion is always wrong; life is sacred and begins at conception and so it must be protected. The Didache (teaching of the 12 Apostles) states: Do not kill your children by abortion'. Vatican II says 'Life must be protected with the utmost care from the moment of conception'.

Islam: Abortion is frowned upon. Many believe ensoulment takes place at 120 days. Before this, it may be permissible to have an abortion. 'Nor can a soul die, except by God's leave' (Qur'an 3:145)

What does Pro-life mean?	Pressure groups that campaign against abortion/euthanasia
What does Pro-choice mean?	Pressure groups that campaign for the right of a woman to decide on abortion.
What is euthanasia?	Mercy killing: ending life for seomone who is terminally ill, or has a degenerative disease can be voluntary (a person deciding
	Right to die – the belief that a human being should be able to control theor own death.
	Hospice- a place that cares for the dying usually from an incurable disease.

	mparing beliefs: the aft	Religion and life terlife: What do the following faiths believe about life after
15	Buddhists	Buddhists believe in rebirth and that no soul is fixed
16	Hindus	Hindus believe in reincarnation and that the soul lives many lives
17	Christians	Christians believe in the physical reincarnation of the body
18	Islam	Muslims believe in resurrection
19	Judaism	Jews focus less on the afterlife than waiting for the Messiah who will come to rule the Earth
20	Sikhism	Sikhs believe in reincarnation.

Homework Task 2: Rewrite a perfect 4 marks answer to the "Explain two similar religious beliefs in contemporary British society that are used to oppose animal experimentation. (4 marks)

QUESTION: Explain two similar religious beliefs in contemporary British society that are used to oppose animal experimentation. (4 marks)

First belief

Simple explanation of a relevant and accurate belief – 1 mark

Detailed explanation of a relevant and accurate belief – 2 marks

Second belief

Simple explanation of a relevant and accurate belief – 1 mark

Detailed explanation of a relevant and accurate belief – 2 marks

Allow up to 4 marks for a response which covers any combination of religions whether contrasting or similar.

Students may include some of the following points, but all other relevant points must be credited:

Some suggested answers:

Humans are more valuable than animals / it is cruel, and animals suffer and often die / cosmetic testing isn't necessary / there are viable alternatives to testing / animal testing takes advantage of animals' inability to give consent so is exploitative and wrong, etc.

Buddhism-Buddhists teach that it is important to protect the natural world and live in harmony with it / all creatures are part of cycle of rebirth / compassion and loving kindness should extend to all living things / ahimsa applies to animals / there are alternative methods scientists can use which do not result in animal cruelty, etc.

Christianity- Christians view animals as part of God's creation / they believe part of their duty, as stewards of creation, is to protect animals, not exploit them / 'The righteous care for the needs of their animals' - Proverbs 12:10 / opposed to testing cosmetics on animals as it isn't necessary, etc.

Hinduism- Hindus believe all creatures are part of Brahman and thus should be respected / it is part of duty (dharma) to protect animals and show ahimsa / animals have souls and are part of the cycle of life, death and rebirth / causing them to suffer may result in bad karma / animals associated with deities should be protected, etc.

Islam- Muslims believe that everyone can be challenged on Judgement Day on how they have treated animals / sparrow quote (Hadith) / Muslims believe scientific experiments should not involve cruelty / testing cosmetics on animals is seen as wrong, etc.

Judaism- Jewish beliefs include Genesis 1 which gives humans responsibility over animals, which must not be abused / many Biblical passages show concern for animals and treating them fairly (e.g. Proverbs 12:10), etc.

Sikhism - Sikhs see humans as custodians of the earth and not as having superiority to mistres animals / all life should be respected / there are other methods of experimentation which do			
cause suffe	ring which should be used if possible / cosmetic testing is wrong, etc.		
Use the sp	ace below, the answers are above.		
	Explain two similar religious beliefs in contemporary British society that ar		
used to op	pose animal experimentation. (4 marks)		

YEAR 9 – Religion, Peace & Conflict PLC How can we link religion to conflict and war?



What do I need to know?			
1.1 Is violence necessary?	0	(2)	8
Define and understand what violence is			
Analyse patterns of violence across the world			
Assess whether it is ethical to go to war			
1.2 Does religion cause war?	0	⊜	8
Define terrorism and understand the different forms of terrorism			
Explain religious viewpoints on war			
Assess the significance of religion in war			
1.4 Is it fair to call the Israel Palestine conflict a 'religious war'?	0	⊜	8
Explain the causes of the Israel Palestine conflicts			
Assess the influence of religion on the conflict			
1.4 Is it ever right to go to war?	9	(2)	8
Outline the theory of Just War		A DECEMBE	
Explain the origins of the theory of Just War			
Assess the Just War theory in relation to past and present conflicts			
1.5 Extended writing	0	(2)	8
Outline the various views on the theory of Just War			
Evaluate whether the Just War theory is relevant in the modern world			
1.6 Why are some people pacifists?	0	(2)	8
Define the term pacifism			
Explain pacifism and its link to religion			
Assess how far pacifism is realistic in the modern world			

Knowledge Organiser Year 9 Autumn 2: Religion, Peace & Conflict

-	Poligion Posco & Conflict				
1	What is Justice?	eligion, Peace & Conflict			
1	what is Justice?	Fairness, making the right and fair a situation that has			
2	What is Peace?	been unjust			
2	what is Peace?	To live in harmony and without fear			
3	What is reconciliation?	Top try to bring sides together and help resolve issues peacefully			
4	What is forgiveness?	The belief that we should be able to move a relationship forward with someone who has done wrong to us.			
5	What is conflict?	Conflict is disagreement, armed conflict is actual fighting			
6	What does the term the lesser	That sometimes evil (or violence) has to take place in			
	of two evils mean?	order to remove/stop a greater evil taking place			
7	What is just war theory?	Christian belief that fighting is sometimes necessary for justice as long as the conditions for war are 'just'			
8	What were the causes of WWI?	Assassination of Franz Ferdinand, Rivalry between nations, imperialism, militarism			
9	What were the causes of WWII?	Fascism, Hitler and the Nazis, Treaty of Versailles			
10	Name one of the three	Only governments can start wars (legal authority)			
	conditions that Thomas Aquinas	2. There must be a proper reason for going to war (just			
	gave for the Just War theory	cause)			
		The war should be fought so that things will be better for everyone (just intention)			
11	When did the Iraq War begin?	2003			
12	What is a Pacifist?	Someone who believes that all forms of violence are			
	Title b d i dellist.	wrong			
13	What is a Holy War?	The rules around fighting a war that is acceptable to a religion			
14	What is a conscientious	Someone who refuses to do something, such as fight in a			
	objector?	war, due to their conscience.			
-	gious teachings	(1) 11 11 11 11 11 11 11 11 11 11 11 11 1			
15	Buddhists	Refrain from harming others			
		Hatred does not cease by hatred, hatred ceases by love			
16	Hindus	The pursuit of truth does not permit violence being			
17	Chatatian in	permitted on one's opponent (Gandhi)			
17	Christianity	Love thy neighbour (Mark)			
18	Islam	He who lives by the sword, dies by the sword (Matthew)			
10	1514111	Peace be upon you (salaam alaikum)			
		Those who die in the name of Allah will be rewarded in			
19	Judaism	paradise (Qur'an)			
19	Juudisiii	Shalom (peace)			
		The sword comes into the world because of the delay of			
20	Sikhism	justice and through injustice (Talmud)			
20	SIMILISHI	When all other methods have failed it is permissible to draw the sword			
		uraw trie Swort			

QUESTION: Referring to at least two different religions, compare opposing religious beliefs about war. Refer to religious teachings in your answer (6 marks)

Students may include some of the following points, but all other relevant points must be credited:

Religions teach peace / belief in 'love your neighbour' or similar (golden rules) / ahimsa / First Precept / morally wrong to kill indiscriminately / innocent civilians – men, women and children get killed or injured / wrong to scare people / should work with government (see Romans 13) / terrorism is illegal, religious believers should follow the law / reference to just war and/or holy war criteria that interprets terrorism as wrong, etc.

Buddhism -Buddhists do not believe in any form of violence / believe in ahimsa – respect for life / not hurting others / first moral precept – to abstain from taking life / harming others against the Noble Eightfold Path – Right Action / Golden Rule – 'Hurt not others in ways that you yourself would find hurtful' -Udanavarga 5:18 / terrorism creates bad kamma, etc.

Christianity- Love your neighbour / treat others as you wish to be treated / do not murder / work with the government — 'Let every person be subject to the governing authorities; for there is no authority except from God, and those authorities that exist have been instituted by God' Romans 13:1 / Love one another/love your enemies / 'Do not be overcome by evil, but overcome evil with good' Romans 12: 21, etc.

Hinduism -Hindus believe in the principle of ahimsa — respect for life / not hurting others / example of Gandhi who protested through non-violent resistance / 'One should never do that to another which one regards as injurious to one's own self. This, in brief, is the rule of dharma. Other behaviour is due to selfish desires' -Brihaspati, Mahabharata (Anusasana Parva, Section CXIII, Verse 8) 'This is the sum of duty; do naught onto others what you would not have them do unto you' - Mahabharata 5,1517 (Golden Rule), etc.

Islam-Islam means peace and Muslims should act in a peaceful manner / Surah 3.134: 'Paradise is for ... those who curb their anger and forgive their fellow men.' / Golden Rule principle of 'do unto others as you would have them do unto you' / 'Be kind to your neighbour and you will be a believer; love for the people what you love for yourself and you will be a Muslim.' [Sunan At-Tirmidhi, Book of Asceticism, Number 2305, Sahih] / 'No one of you is a believer until he desires for his brother that which he desires for himself' - Sunnah, etc.

Judaism-The Torah contains several versions of the Golden Rule /Leviticus 19:18 — 'You shall not take vengeance or bear a grudge against any of your people, but you shall love your neighbour as yourself' / 'What is hateful to you, do not do to your fellow man. This is the entire Law; all the rest is commentary' - Talmud, Shabbat 3id, etc.

Sikhism-Sikhs consider acts of terrorism as wrong as innocent people are targeted / people should live in peace and harmony and be tolerant of others beliefs / 'Precious like jewels are the minds of all. To hurt them is not at all good. If thou desirest thy Beloved, then hurt thou not anyone's heart' - Guru Arjan Dev Ji 259, Guru Granth Sahib / 'Cruelty, material attachment, greed and anger are the four rivers of fire.' Falling into them, one is burned. O Nanak! One is saved only by holding tight to good deeds' Guru Granth Sahib 147, etc.

YEAR 9 - PLC

How does religion approach crime and punishment?



What do I need to know?			
1.1 Where does right and wrong come from?	0	(2)	8
To compare and contrast morals and law			
To explain where morality comes from			
To define utilitarianism			
To assess how the utilitarian dilemma arises in real life scenarios			
1.2 Should young people be imprisoned?	©	@	8
To outline the law and legal procedures in accordance with young offenders			
To explain why there are different beliefs about what should happen to young offenders			
To evaluate the effectiveness of imprisoning young offenders			
1.3 What are religious views on prisons?	0	@	8
To outline non-religious views on prisons			
To outline religious views on prisons in both Christianity and Islam			
To assess the effectiveness and morality of prisons			
1.4 What are religious views on capital punishment?		@	8
To identify the different types of crime in the UK			
To describe attitudes towards law and order in both Islam and Christianity			
To assess religious and non-religious views towards the death penalty			
1.5 Spring assessment		@	8
Year 8 content: Abrahamic religions (5 marks)			
Religion and life (22 marks)			
Religion and conflict (13 marks)			

Key terms:

Hate crime

Law

Retribution

Order

Restorative justice

Crime

Victim

Utilitarianism

Perpetrator

Deterrence

Prison reform

Capital punishment

Reformation

Young offender

Assault







Knowledge Organiser Year 9 Spring 1: Crime and Punishment

		Religion and life
1	What are laws?	The rules which govern a country to keep us safe
2	What is order	The enforcement of rules, e.g. by the police force
3	What is capital punishment?	The death penalty
4	What is community service?	A form of punishment where the criminal has to do a set number of hours work in the community
5	What is a crime?	Breaking the law, this can be against a person, (eg assault) against property (eg arson) or against the state (eg terrorism)
6	What is a deterrence	The aim of punishment, where the punishment puts someone off committing the crime
7	What is a hate crime?	A crime committed because of prejudice – eg homophobic violence
8	What is reformation?	The aim of punishment, helping the other person see how they should behave better – eg restorative justice
9	What is retribution?	The aim of punishment – making up for or compensation for a crime
10	What is a young offender?	A person who is under 18 who has committed a crime
11	What percentage of young offenders were permanently excluded from school?	52%
12	What percent of female prisoners have children under 16 at home	54%
13	When was the prison reform trust established?	1981
14	What does it aim to achieve?	It works to crate a more humane and effective prison system and also to help with the reoffending
15	What do religious groups believe about forgiveness?	It helps both victim and perpetrator move on from a crime
	gious teachings	
15	Buddhists	Refrain from harming others
16	Hindus	Hatred does not cease by hatred, hatred ceases by love Corporal punishment can sometimes be used – The Law of
10	Hilluus	Manu states a hand can be removed for theft
17	Christianity	Love thy neighbour (Mark) Do not Kill
		An eye for an eye
18	Islam	Some crimes are punishable by death Forgiveness is a quality of Allah
19	Judaism	In some cases, the death penalty can be used for murder, for example the Nazi Eichmann was killed for his war crimes after WWII but this is rare
20	Sikhism	The law of Karma – evil actions result in bad Karma and lower rebirth

YEAR 9 - Philosophy PLC

Philosophy: How can we prove God exists?

1.1 What is the 'Philosophy of Religion'?	0	@	8
To outline the roles of Plato and Aristotle in Philosophy			
To explain Plato's Cave allegory			
To explain Aristotle's theory of Eudaimonia			
To evaluate which theory is more accurate			
1.2 What is the argument of first cause?	0	(2)	8
To explain the Cosmological argument			
To outline the role of Aquinas and his argument for the existence of God			
To evaluate the first cause argument			
1.3 Can a watch prove God's existence?	0	(2)	8
To explain the design argument (natural theology) according to Aquinas and Paley			
To compare the theories of natural selection and natural theology			
To evaluate the evidence behind each argument			
1.4 Does being moral prove God exists?	0	(2)	8
To define morality and conscience			
To explain the argument for morality			
Extended writing: You can't have moral rules without God. How far do you agree?			
1.5 Does free will exist?	0	9	8
To explain the concept of free will			
To assess the concept of free will against that of fate and determinism			
To evaluate the relevance of free will alongside belief in God			
1.6 How did Karl Marx critique religion?	©	@	8
To outline Marx's criticism of religion using evidence			
To explain the idea of religion as a social construct			
To evaluate Marx's theory of religion			
1.7 What is Humanism?	0	@	8
To define Humanism and its values			
To define and outline human rights			
To compare the similarities and differences between humanism and human rights			

Knowledge Organiser RE Spring 2 – Can Philosophy help prove God's existence?

		Key terms
1	Allegory	A story, poem, or picture that can be interpreted to reveal a hidden
	,	meaning, typically a moral or political one.
2	Logic	The study of correct reasoning or good arguments.
3	Cosmological	An argument for the existence of God which claims that all things in
D 69	argument	nature depend on something else for their existence and that the whole
		cosmos must therefore itself depend on a being which exists
		independently from it.
4	Natural Theology	The process of deriving knowledge of God from the use of natural
		human reason. Any appeal to general evidence, the world, and our
		understanding in theology is <i>natural</i> theology.
		(eg God's creative power is found in a beautiful sunset)
5	Natural Selection	The process whereby organisms better adapted to their environment
		tend to survive and produce more offspring.
6	Morality	What is right or wrong in terms of human behaviour
7	Moral	Concerned with being a good person
8	Free will	The idea that humans are free to make their own choices.
9	Fate	the development of events outside a person's control, regarded as
		predetermined by a supernatural power.
10	Determinism	The theory that all events, including human action, are ultimately
		determined by causes regarded as external to the will. Some
		philosophers have taken determinism to imply that individual human
		beings have no free will and cannot be held morally responsible for their
		actions.
		Key thinkers
11	Plato	Allegory of the cave – to consider the nature of belief versus knowledge
12	Aristotle	Aristotle argued that our ultimate goal in life is to reach Eudaimonia
111111111111111111111111111111111111111		(you-die-monia) which is the ultimate happy life
13	Aquinas	First cause – everything has a cause, therefore the first cause must be
0.0000	3000 - 0000000000	God
14	Paley	Design argument - the world is too complex to have happened by
155508	********** *	chance, therefore the designer must be God
15	Darwin	Natural section – organisms have adapted to their environment over
		time through the process of evolution
16	Kant	Morality - does not prove the existence of God, but makes believing in
		God a reasonable thing to do
	F 3-715 TO SE	Criticisms of religion
17	Atheism	The belief that there is no God or supernatural being
18	Humanism	A type of atheism that focuses on human beings and the capacity for
		self-improvement
19	Marx	Religion is the 'opium of the people' Religion is a social construction- God
	social services and the services are the services and the services are the services and the services and the services are the services are the services and the services are the services and the services are the	did not create humankind, humankind created God to exercise control
		and legitimise class positions.
20	Communism	
	The state of the s	
20	Communism	A political belief system based on equality where there is no religious belief system