YEAR 9



Home Learning



Home Learning - Parent/Carer guide

These home learning booklets will be emailed to all parents/carers of all students in Years 7, 8 and 9 every 2 weeks on a Monday A week.

The idea is that, across 12 subjects, you will be able to speak with your child about the key pieces of knowledge that they will need to know across that 2 week period. Key Stage 3 is all about students being exposed to a knowledge-rich curriculum so that they know more and remember more about each area of study.

This E-booklet allows all parents and carers to quiz their children, to talk to them about the knowledge and maybe learn things together. Much like the primary model of learning spellings every week, this allows all parents/carers to know the key knowledge that your child will be learning in the next two weeks and also how well your child is doing in remembering these key pieces of knowledge and information.

It is to be expected that students can remember more towards the end of the two weeks than at the beginning and you should be able to see your child make progress.

This can all be done with no pen, no paper, just discussion. Quiz your child whilst having dinner maybe, or even let them quiz you if you would like to learn together! Of course, you can get your child to write down answers but it is not necessary.

I hope that this new initiative allows parents to be more involved with your child's home learning without the pressure and stress that some homework tasks can put on child/parent relationships.

If you have any questions or would like to know more about homelearning at Penketh High School then please get in touch with me directly on ifarrar@penkethhigh.org and I will only be too happy to assist in any way I can

Kind Regards

lan Farrar
Vice Principal - Curriculum and Progress



Current Learning

		The state of the s
1	Record	To set down in some form of permanence - Record through sketching, drawing, printing and painting- in our personal sketchbooks.
2	Develop	Refine and develop idea through changing our design when working from 2 dimensional drawings into 3d models.
3	Communication	Using visual elements to convey ideas
4	Secondary Research	Using our past observations and taking inspiration from books, the internet and studio resources.
5	Construct	Building our Seth Clark response in cardboard and collected materials.
6	Layers	More than one sheets or piece of materials, through our model making and collage.
7	Texture	The feel and appearance of a material, selected for our models.
8	De-collage	The opposite of collage; instead of an image being built up of all or parts of existing images, it is created by cutting, tearing away.
9	Single flute (cardboard Double Flute (Cardboard)	1 layer of corrugated card trapped between 2 layers of flat sheet or 2 corrugated layers of card sandwiched in between 3 layers of flat card. Manipulation of these materials through model making
		Prior Learning
10	Urban Decay	Urban - relating to a town or a city. Decay - the state or process of rotting or decomposition. Referencing the work of Seth Clark.
11	Contextual analysis: Derelict - Architecture	Selecting and recording form the from the design of buildings in very poor condition as a result of disuse and neglect.
12	Composition	The way in which element work together to produce an overall effect, within our sketchbooks to research and within our drawings.
13	Layout	The arrangement of images, text and style on a page - Seth Clark research page.
14	Shading	A slight variation of tones within our drawings and using the pressure of our pencil in our illustrations.



		Current Learning
1	Computer System	A computer system takes a set of digital inputs, processes them and creates a set of outputs.
2	Embedded System	This is a control device that is built into a larger piece of equipment and do one specific job. Examples include SAT NAV, washing machine and traffic lights.
3	CPU	Central processing unit also known as a microprocessor, is the 'brain' at the core of any computer system
4	Input	Information or data needs into the system from input devices such as keyboards, mice, cameras, or sensors.
5	Process	The information collected needs to be processed and actions need to be carried out. E.g. carry out calculations.
6	Output	Once processed the result is presented by an output device such as a monitor or speaker or printer.
7	Hardware	Physical components of a computer system e.g. monitor, keyboard, mouse, CPU
8	Software	a set of instructions, data or programs used to operate computers and execute specific tasks. For example, email software like Outlook.

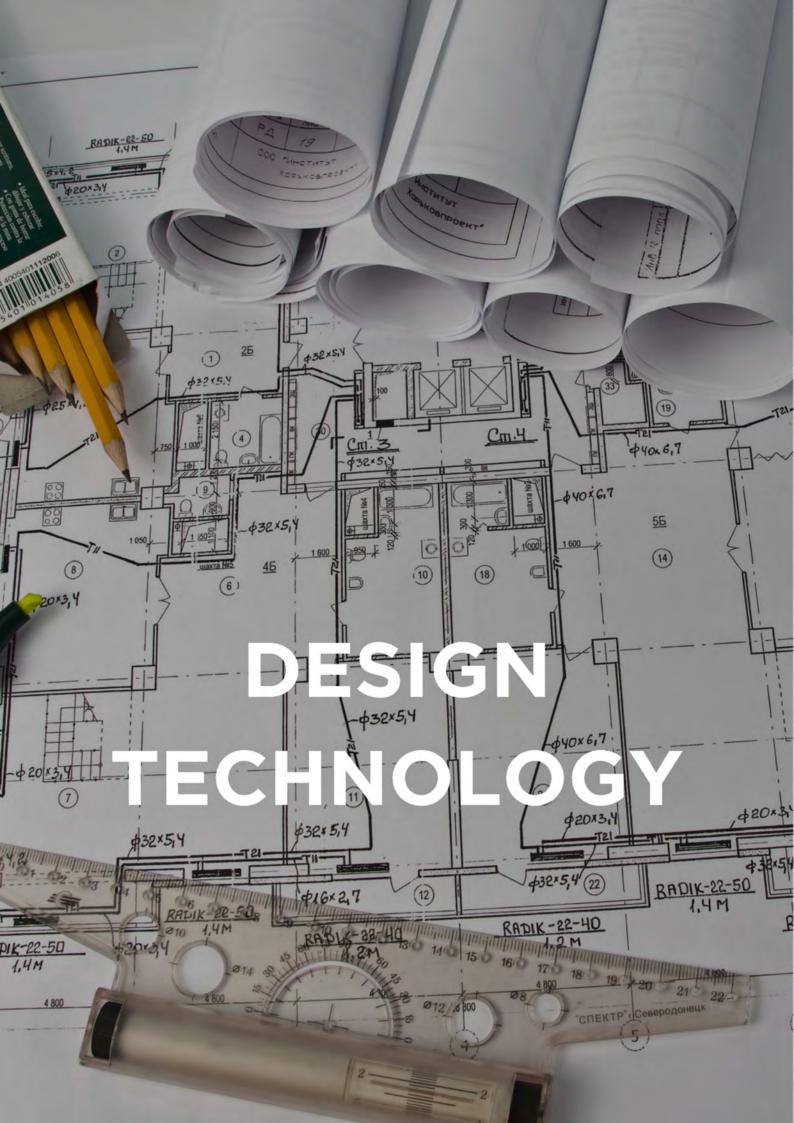
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9	Cyber attack	An attack on an organisation that tries to access their systems to steal large quantities of data.
10	Malware	Malicious software is intended to cause damage to files and systems.
11	Encryption	Converts information using a public encryption key into a meaningless form that cannot be read if intercepted.
12	Social engineering	The art of exploiting human psychology, rather than technical hacking techniques, to gain access to buildings, systems or data
13	Hacking	A term used to describe illegal access of computer systems by unauthorised users.
14	Personal data	Any data /information relating to an individual that can allow them to be identified e.g. first name, date of birth.
15	Firewall	Controls the transmission of data between a computer and other network computers on the Internet



	Current Learning				
1	What is genre?	The theme / type of play.			
2	What does comedy aim to do?	Theatre to make people laugh. A stop in the scene or in a line of text.			
3	What does action aim to do?	Theatre to make the audience feel excited.			
4	What does drama aim to do?	Theatre to make the audience feel sad.			
5	What does horror aim to do?	Theatre to make the audience feel scared.			
6	What is a stereotype?	A label given to a group of people that categorises them, this is not necessarily true.			
7	What does it mean to exaggerate?	To be over the top and bigger with your physical and vocal skills.			
8	Why does exaggeration create comedy?	Because the characters are over the top and larger than life.			
9	What does to analyse mean when we feedback?	To consider what the purpose of the choices in the play made were, what are they showing to the audience.			
	Prior I	Learning			
10	What is physical theatre?	Representing a story, emotion, event or idea using your body and movement to tell the story.			
11	What is dramatic irony?	Where the audience know something that the characters don't.			
12	What is facial expression?	Using your face to express emotion.			
13	What is a gesture?	A small movement or actions that communicates a meaning to the audience.			
14	What does represent mean?	To show something in your performance, e.g. if you walk away from someone, you represent that you don't			

want to be near them.



Current Learning

		The state of the s
1	What is acrylic?	Acrylic is a transparent plastic material with outstanding strength, stiffness, and optical clarity
2	What is a LED?	Paper covered with powdered glass, used for smoothing and polishing
3	What is a client?	A client is a person or organization using the services of a professional person or company
4	What are design ideas?	Realization of a concept or idea into a drawing that for fills what you set out to achieve.
5	What is soldering?	Soldering is a process that joins two or more types of metals through melting solder
6	What does Quality assurance mean?	A machine having one or more flat circular disks faced with abrasive for smoothing wood surfaces
7	What is an Interference fit?	A fit between two parts in which the external dimension of one part slightly exceeds the internal dimension of the part into which it has to fit.
8	What does Ecco friendly?	Imply means Earth-friendly, being eco-friendly means being 'designed to have little or no damaging effect on the environment
9	What is Malleable?	A substance that is malleable is soft and can easily be made into different shapes
10	What does assemble mean?	To fit together the separate component parts of a machine or other object.
	Pr	ior Learning
11	What is a final design?	A Final design is a drawing that has been developed or selected from previous design ideas that might get made into a real item.
12	What is a vice? What do we use it for?	A vice is a mechanical piece of apparatus used to secure an object; it allows work to be performed on it.
13	What does CAD stand for?	Computer Aided Design
14	What is a laser cutter?	Laser cutting is a precise method of cutting a design from a given material using a CAD file to guide it, this is a CAM device.
15	What is CAM?	Computer Aided Manufacture

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		Current Learning		
1	Acts	Large sections of a play, typically divided into several parts. Each act can have one or more scenes.		
2	Scenes	Smaller divisions within an act, usually marking a change in location, time, or characters present.		
3	Stage Directions	Instructions in the script that tell actors where to move, how to speak lines (e.g., tone, volume), and how to interact with other characters. These are often written in italics or brackets.		
4	Characters	The people or beings who take part in the action of the play. They are typically introduced in the cast list at the start of the play.		
5	Dialogue	The spoken lines of the characters in the play. This is the primary form of communication between characters.		
6	Monologue	A long speech delivered by one character, often revealing their thoughts, emotions, or perspectives. It can be spoken to another character or as a soliloquy.		
7	Soliloquy	A type of monologue where a character speaks their thoughts aloud, often while alone on stage. It gives insight into their inner feelings or plans.		
8	Foreshadowing	Hints or clues in the play that suggest what will happen later in the story. It builds suspense or prepares the audience for future events.		
9	Set	The physical environment where the action of the play takes place, including furniture, backdrops, and other visual elements.		
10	Malorie Blackman	The famous author of the 'Noughts and Crosses' novel.		
		Prior Learning		
11	Rhetoric	Understanding the elements of rhetoric: Logos, pathos, ethos		
12	Audience	Understanding your audience helps you choose the right language, tone, and style to persuade them effectively.		
13	Purpose	This could be to inform, persuade, argue, or entertain. Clear purpose shapes your message.		
14	Rhetorical device	Techniques used to persuade and engage. These include repetition, rhetorical questions, alliteration, and figurative language.		
15	DAFOREST	Helpful acronym to help with persuasive writing.		

Powerful speakers

Anecdote

Expert opinions

Advertising

Customer manipulation

16

17

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Analyse figures like Martin Luther King Jr. or Greta Thunberg to learn

A short personal story used to persuade. Anecdotes make arguments relatable

and emotional, drawing the audience in.

Quoting knowledgeable individuals. Using experts adds credibility and

strengthens your argument.

Advertisements rely on language, images, and emotional appeal to influence

customers.

This can include emotional triggers, scarcity tactics, or creating a

sense of urgency to make customers act.

how they inspire and influence others.



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Current Learning			
1	Food miles	Food miles	
2	Carbon footprint	a measure of the amount of carbon dioxide released into the atmosphere as a result of the activities of humans.	
3	Sustainable	using natural resources in a way that we could keep doing for a long time. We can be more sustainable by reducing our use of natural resources.	
4	Agriculture	both growing and harvesting crops and raising animals, or livestock.	
5	Emissions	is something that's been released or emitted into the world. Car exhaust, burps, and radio broadcasts are all examples of emissions.	
6	Greenhouse gas	gases in the earth's atmosphere that trap heat.	
7	Methane	Greenhouse gas produced by human activities like farming.	
8	Synthetic	Made in a chemical process and isn't found naturally on earth eg synthetic rubber or plastic	
9	Fertiliser	A substance (such as animal manure or an artificial chemical, particularly one that contains nitrogen, phosphorus, and potassium) that is added to soil to increase its productivity for crops.	
	P	rior Learning	
10	Low biological value protein (LBV)	Low biological value (LBV) proteins are missing one or more of the essential amino acids we need.	
11	High biological protein (HBV)	High Biological value (HBV) proteins contain all the 10 essential amino acids. Functions in the body.	
12	Amino Acids	Amino acids are molecules that combine to form proteins. Amino acids and proteins are the building blocks of life	

Protein deficiency (Kwashiorkor)

Deficiency

13

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Kwashiorkor is a disease marked by severe protein malnutrition and bilateral extremity swelling. It usually affects infants and children, most often around the age of weaning through age 5. The disease is seen in very severe cases of starvation and poverty-stricken regions worldwide

a lack or shortage

GEOGRAPHY



	Curren	t Learning
1	How many people visit the Lake District each year?	16 million
2	How much money do tourists spend in the Lake District?	£1 billion
3	Name Earth's highest mountain	Mount Everest
4	Where is the Lake District located?	West of the United Kingdom, northwest of England.
5	What are the opportunities for economic activity in the Lake District?	Tourism, farming, quarrying and forestry
6	What is economic activity?	Activities which generate an income (money) for an area.
7	How many people visited the Lake District in 2018?	Around 19.38 million visitors each year (2018).
8	What are the main tourist activities in the Lake District?	Hiking, rock climbing, water sports or enjoyment of towns and scenery.
9	How many people does farming employ in the Lake District?	2,500
	Prior	Learning
11	What is an ice sheet?	A mass of ice which is more than 50,000km2 in size.
12	What is a tundra environment?	A cold region where the ground is deeply frozen; only the surface thaws in the summers, allowing small plants to grow.
13	When did the last ice age start?	100,000 years ago
14	When did the last ice age end?	20,000 years ago
15	What was most of the UK covered by in the last ice age?	An ice sheet
	What term is used to describe permanently frozen ground, where the surface thaws in summer?	Tundra
	How much lower were sea levels during the ice age?	120 metres in places

HISTORY



Current Learning

1	What policy was imposed by the British government that mobilised all of society for the war effort?	Total war
2	What government department was tasked with controlling news and communication with the public?	Ministry of Information
3	How many women were working in roles such as mechanics and engineers by 1943?	7.25 million
4	What name was given to the organisation of 80 000 women that ensured that farms kept running during the war?	Women's Land Army
5	How many children were evacuated to the countryside from major British cities?	1.5 million children
6	How many major bombing raids was London subjected to by the Luftwaffe during the Blitz?	71 bombing raids
7	What other major British cities were bombed during the Blitz?	Coventry, Bristol, Birmingham, Glasgow, Liverpool
8	What was developed by the Germans in 1944 that led to significant damage in Britain and was impossible to prevent?	V-1 flying bombs and V-2 rockets
9	How many British civilians died during the bombing raids?	60 000 British civilians
10	What were Home Guard units instructed to do in the event of Nazi occupation?	Destroy supply lines, disable vehicles and assassinate Nazi officers

Prior Learning

11	What German form of warfare was based on rapid movement and regular, concentrated attacks?	Blitzkrieg
12	What countries did the Nazis conquer in 1940 and 1941?	Denmark, Norway, the Netherlands, Belgium, France, Yugoslavia, and Greece
13	How long was the Nazi campaign that led to the conquest and subsequent Fall of France?	6 Weeks
14	From what port were Allied troops evacuated to Britain during the fall of France?	Dunkirk
15	British victory in what battle was seen as the turning point of the war in Africa?	Battle of El Alamein
16	What was the name of Hitler's invasion of the Soviet Union on 22 June 1941?	Operation Barbarossa
17	What were two reasons why the invasion of the Soviet Union was unsuccessful?	Blitzkrieg ineffective over great distances, and troops unprepared for winter
18	What city did the Germans fail to capture in the first week of December 1941?	Moscow
19	What proportion of casualties in the Second World War were from the Soviet Union?	More than half
20	How many Soviet civilians were estimated to have died from German massacres, disease, and famine during the Second World War?	10 million

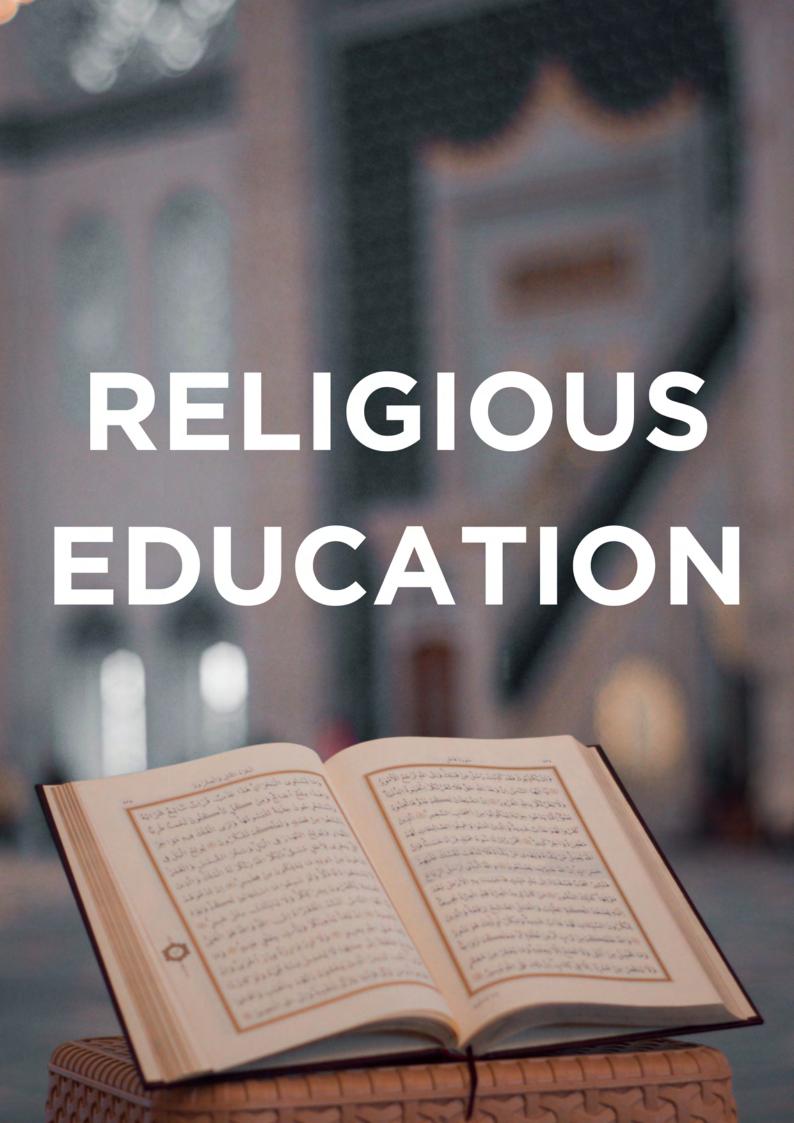
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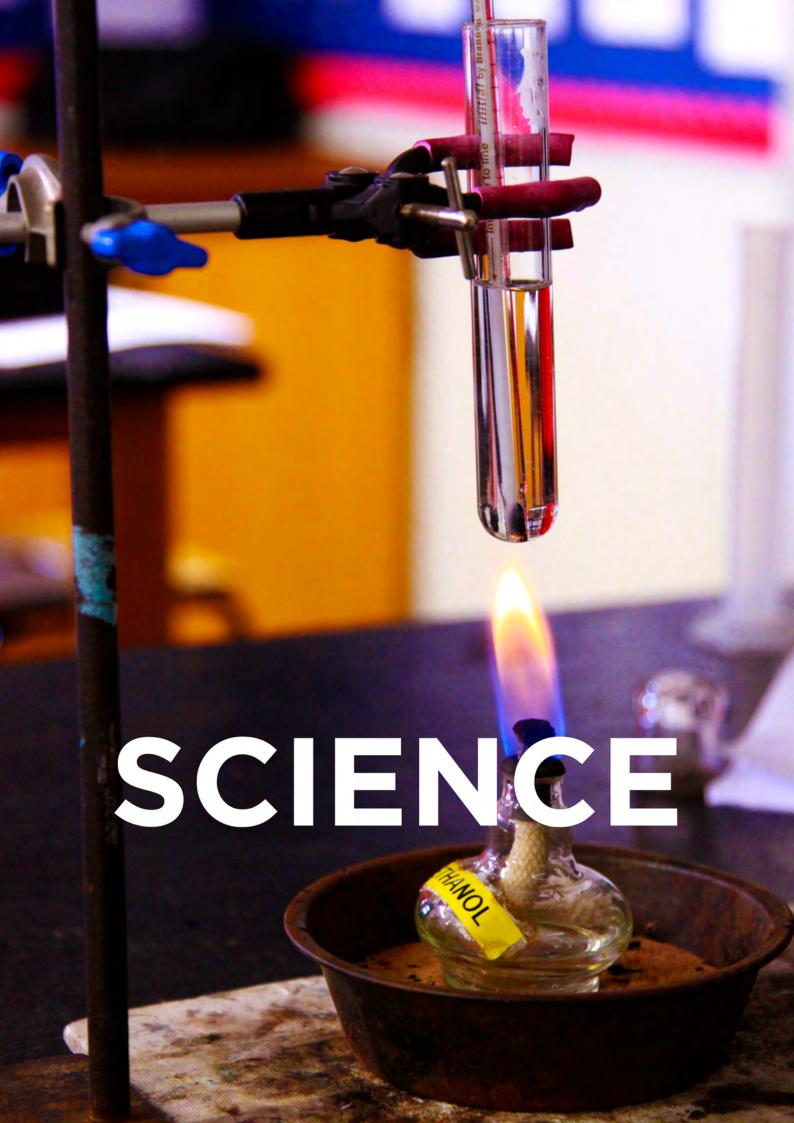
	Current Learning GROUP 6 WORDS					
1	lustig	fun				
2	befriedigend	rewarding				
3	schlecht	bad				
4	stressig	stressful				
5	nutzlos	useless				
6	wenn	if				
7	selbst wenn	even if				
8	bezahlt	paid				
9	kreativ	creative				
10	schwer	difficult				
	Prior I	Learning				
11	Donnerstag	Thursday				
12	Rock	skirt				
13	Erdkunde	geography				
14	Nachrichten	news				
15	ziemlich	quite				



	Current Learning					
1	Time Signature	Amount of beats in a bar				
2	Syncopation	Off beat rhythms				
3	Call and Response	Question and answer musical devices				
4	Improvisation	Making up a music rhythm or phrase				
5	Crescendo	Gradually getting louder				
6	Diminuendo	Gradually getting quieter				
7	Accelerando	Gradually getting faster				
8	Signal	Musical phase use to signify a change in section				
9	Master Drummer	Leader of a drum performance				
	Prior Learning					
10	Pulse	Constant steady beat, heartbeat of the music				
11	Ostinato	Repeated rhythm				
12	Polyrhythm	Many rhythms, layered rhythms				
13	Note values: Semibreve = 4 Minim = 2 Crotchet= 1 Quaver =1/2 Semiquaver =1/4	Duration of notes used in music notation				
14	Beat	Main pulse				



	Current Learning					
1	Anti Semitism	Hostility or prejudice to Jewish people.				
2	Atonement	Making things better after sinning, asking for forgiveness from God				
3	Banality of Evil	Evil that can result from thoughtless behaviour, normal, common, and dull, not sadistic, evil actions.				
4	Dignity	To treat someone with honour and respect.				
5	Evil	That which is considered to be extremely immoral, wicked and wrong.				
6	Free Will	The ability to choose between right and wrong for yourself. To follow your own path.				
7	Moral Evil	It is manmade: it is evil created on purpose by humanity and often leads to suffering.				
8	Natural Evil	Evil caused by nature; humans, have very little control over it and it does not discriminate.				
9	Sin	Any thought or action which goes against God's will.				
		Prior Learning				
10	Discrimination	To act differently towards or against someone or a group on the basis of prejudice.				
11	Equality	The state of being equal, especially in status, rights, or opportunities.				
12	Prejudice	Believing some individuals or groups are inferior or superior without even knowing them, forming an unreasonable opinion without evidence for it.				
13	Social Injustice	The wrongful actions against individuals within society.				
14	Social Justice	Means ensuring there is equal distribution of wealth, opportunities, and privileges in society.				



	Curre	nt Learning
1	If a car is driving north at 60 m/s, what word describes both its speed and direction?	Velocity, because it includes both speed and direction.
2	When you describe something as moving "10 m/s to the east," what kind of quantity is that?	A vector quantity, because it has both size (10 m/s) and direction (east).
3	What do we call something that only has size, like "50 m/s," but no direction?	A scalar quantity, because it only tells us the magnitude.
4	If you walk straight 5 meters from your door, what is the word for how far and in which direction you've moved?	Displacement, because it's the distance in a straight line from the starting point.
5	What does a distance-time graph show?	It shows how far something has traveled over time, with distance on the y-axis and time on the x-axis.
6	If a toy car isn't moving at all, what word would you use to describe it?	Stationary, because it's not moving.
7	On a hill, what does the steepness of the slope (gradient) tell us?	It tells us how fast something is moving; a steeper gradient means it's faster.
8	If you're sitting on a train and see another train passing by, how would you describe its motion compared to yours?	That's relative motion, because it's how the train moves compared to you.
9	Why might someone think heavier objects fall faster than lighter ones?	That's a misconception, because all objects fall at the same rate in the absence of air resistance.
10	What happens when you push a door near its handle to make it swing?	You create a moment, which is the turning effect of a force around a pivot (like the door hinge).
	Prior	Learning
11	What do we call a substance that tastes sour, has a pH less than 7, and releases hydrogen ions in water?	An acid, because it releases H+ ions and has a low pH.
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12	If a substance feels slippery, has a pH greater than 7, and releases hydroxide ions, what is it?	An alkali, because it releases OH- ions and is basic.
12		An alkali, because it releases OH- ions and is basic. Neutralisation, which forms water and a salt.
	than 7, and releases hydroxide ions, what is it? What happens when an acid and an alkali mix	
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13 14	than 7, and releases hydroxide ions, what is it? What happens when an acid and an alkali mix and cancel each other out? What is created when the hydrogen in an acid is replaced by a metal or other positive ion? How do we measure if something is acidic,	Neutralisation, which forms water and a salt. A salt, which is a compound formed in this reaction.
13 14 15	than 7, and releases hydroxide ions, what is it? What happens when an acid and an alkali mix and cancel each other out? What is created when the hydrogen in an acid is replaced by a metal or other positive ion? How do we measure if something is acidic, neutral, or alkaline? If you dip a special paper into a liquid and it	Neutralisation, which forms water and a salt. A salt, which is a compound formed in this reaction. Using the pH scale, which ranges from 0 (acidic) to 14 (alkaline). It's an indicator, which tells whether the solution is acidic or
13 14 15 16	than 7, and releases hydroxide ions, what is it? What happens when an acid and an alkali mix and cancel each other out? What is created when the hydrogen in an acid is replaced by a metal or other positive ion? How do we measure if something is acidic, neutral, or alkaline? If you dip a special paper into a liquid and it changes color, what is the paper showing? What do we call a substance that can	Neutralisation, which forms water and a salt. A salt, which is a compound formed in this reaction. Using the pH scale, which ranges from 0 (acidic) to 14 (alkaline). It's an indicator, which tells whether the solution is acidic or alkaline.
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