## YEAR 8



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 - Progress and Outcomes



	Current Learning			
1	Composition	A formal element in art. The placement and arrangement of your artwork and how shapes relate within it. i.e., The layout and positioning of your work		
2	Contrast	Difference and variety i.e., Dark against light		
3	Low relief collage	Bas-relief subtle layers to capture our illustrations and to create a surface to draw on to.		
4	Render	Making our bas-relief shapes and details obvious by drawing onto the surface.		
5	Definition	To make something "Stand out" and become obvious		
6	Depth	Creating 3 dimensions using graduated shading		
7	Formal Elements	Formal Elements are parts used to make a piece of artwork. The 8 elements are Line, Form, Shape, Tone, Pattern, Texture, Colour and Composition		
8	Proportion	Comparison of size. The relative size of parts of a whole i.e. Are the eyes the right size for the face?		
9	Guidelines	Creating a series of lines to draw within so everything is the same size i.e.  A title in your sketchbook so you can get all your letters the same size, cardboard construction and layout.		
		Prior Learning		
10	Graduated Shading	Shading with a pencil/ pencil to create depth. Where dark gradually turns into light without any imperfections.		
11	Blending	Gently bringing together two or more colours to create the softening of lines i.e., shading blue and yellow together to create blue graduating to green graduating to yellow.		
12	Design Illustration	Recording or ideas to show our inspiration from Paolozzi within our own designs.		
13	Depth	Creating 3 dimensions using graduated shading		
14	Tone	Is an formal element in art and literally means light and dark.		



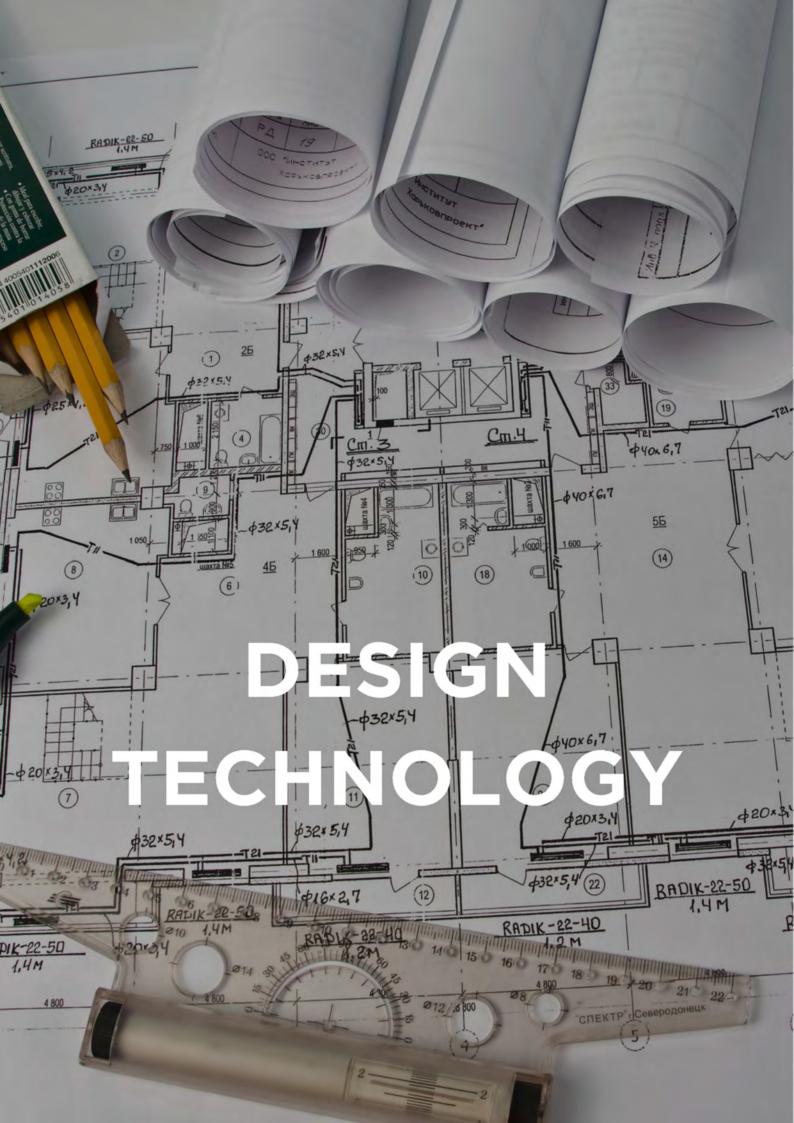
	Current Learning				
1	Binary	This is a digital coding system which uses two values to represent data, 0 and 1.			
2	Denary	Base 10 number system. What we use every day 0-9			
3	Nibble	The name given to 4 bits or half a byte.			
4	Byte	Computer storage space is measured in bytes. A byte is a series of 8 bits. One character on a keyboard is a single byte.			
5	Kilobyte	It is generally thought of as 1,000 bytes. However, to be completely correct, it is actually 1,024 bytes			
6	Megabyte	It is generally thought of as one million bytes or 1,000 kilobytes. However, to be completely correct, it is actually 1,048,576 bytes or 1,024 kilobytes.			
7	Gigabyte	It is equivalent to 1024 Megabytes although you will commonly see it referred to as 1,000 Megabytes.			
8	Terabyte	1,000 (1024) Gigabytes.			

### **Prior Learning**

1	Spreadsheet	A spreadsheet is a piece of software which is used to carry out calculations.  Spreadsheets are very common in business, as they are excellent for handling data
2	Cell Reference	Each cell in a spreadsheet has an 'address' that describes its position in the worksheet. The address is made of two parts  A B A A B A B B B B B B B B B B B B B
3	Range	A typical cell reference for the most top left cell in the workbook is A1 this means its sits along Column A and is also in Row 1  This can be one cell or a collection of cells
		* E C D
4	Formula	A formula is used to do every single calculation in the spreadsheet.  A formula can be as simple as adding up two numbers in different cells or it can be as complex as working out a statistical result from millions of pieces of data collected over months. It always starts with =
5	Drag handle	A II C D  Jan Feb TOTAL 2 Bikes 100 200 300 1 Toys 200 50 4 Games 300 100
6	Function	A function does a very specific job within a spreadsheet.  SUM – will add up at set of numbers  COUNTA- counts the number of non-blank cells (not empty) in a cell range  MAX- will find the highest value in a set of numbers  MIN- will find the lowest value in a set of numbers  AVERAGE- will find the average of a set of numbers  IF- checks to see if a statement is true or false and then does one of two things depending on the result  COUNTIF- will add up numbers only if those numbers meet certain conditions



	Current	Learning
1	What is storytelling?	Where we communicate a narrative to an audience.
2	What does it mean to use movement to tell a story?	Creating a section of movement to represent a story.
3	What does represent mean?	To show something to the audience.
4	What is a still image?	A frozen picture or image.
5	What is mime?	Acting without speaking.
6	What is body-as-prop?	Using yourself and your own body to create the objects, prop and set on stage.
7	Why would we use body-as-prop?	To create a more interesting performance, because you don't have time to change set, and because you may not have access to everything you need.
8	What is slow motion?	Moving at an exaggerated slow pace.
9	Why would we use a still image?	To highlight a key moment.
	Prior L	_earning
10	What is a narrator?	The person who tells a story to add information for the audience.
11	What are levels?	How high or low you are in the space.
12	What is facial expression?	The way you use your face to express emotion.
13	What is posture?	The way you hold your body.
14	What is space?	The distance / space between characters to show their relationships.



### **Current Learning**

1	What is a wood joint?	Joinery is a part of woodworking that involves joining together pieces of wood or lumber, to produce more complex items
2	What is glass paper?	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 a mitre saw?	A mite saw is a saw used to make accurate crosscuts and mites in a work piece by pulling a large backsaw back and forth across the work to cut at a desired angle.
6	What is a disc sander?	A machine having one or more flat circular disks faced with abrasive for smoothing wood surfaces
7	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
8	What is CAM?	Computer Aided Manufacture
9	What is sand sealer? And what does it do?	A sanding sealer can be used on bare timber products, it protects the timber making it resistant to water and adds a shinney finish
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	Name 3 H/S rules in a DT classroom?	
15	What is an evaluation? And why do we use them?	Designers evaluate their finished products or prototypes to test whether they work well and if the design can be corrected or improved.

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			Current Learning		
1	Scythe	A tool used for cutting crops, often represented as a curved blade on a long handle; in the book, it symbolizes death and the role of reaping souls.			
2	Dystopia	An imagined society that is undesirable or frightening, often characterized by oppressive societal control and the illusion of a perfect society			
3	Immortality	The ab	ility to live forever; in "Scythe," this concept is explored in the context of a world where people do not age or die.		
4	Population	The	total number of people living in a specific area; the book discusses the implications of controlling population growth.		
5	Reaping	The act	of harvesting crops; metaphorically used in the book to describe the act of taking lives by Scythes.		
6	Controversial	Likely to	cause disagreement or controversy; the actions of Scythes and their moral implications are central to the plot.		
7	Ethics		noral principles that govern a person's behaviour or the conducting of an he book raises questions about the ethics of killing in a world of immortality.		
8	Apprentice	A pers	A person who is learning a trade from a skilled employer; in "Scythe," characters train under experienced Scythes.		
9	Legacy	Something handed down from an ancestor or predecessor; the characters in the book consider their legacies in the context of life and death.			
10	Governance	The action or manner of governing a state, organization, or people; the book explores the governance of a society without death.			
			Prior Learning		
11	Introduction to Her Villains	oes and	Explore the characteristics of heroes and villains in literature and popular culture.		
12	Character Crea	tion	Students design their own hero or villain, focusing on backstory, appearance, personality, and motivations.		
13	Descriptive Writin	g Skills	Learning techniques to describe characters vividly using sensory details, figurative language		
14	The Hero's Jour	rney	Looking into the famous 'Hero' structure found in many myths.		
15	Villainous Motiva	itions	Exploring the reasons behind a villain's actions (e.g., greed, revenge, trauma).		
16	World-Buildir	ng	Focusing on effective worlds and setting descriptions across stories.		
17	Editing and Rev	ising	Understanding the importance of editing and revising work.		
18	Daedalus and Ic	arus	The famous tale of an overly-ambitious young man who flew too close to the sun.		
19	Scylla		A deadly monster found in the myth linked to the witch 'Circe'		
20	Figurative langu	uage	Recapping and mastering the understanding and usage of similes, metaphors, personification.		



Current Learning			
1	Special diet	Diet that has been adapted to the needs of an individual or group	
2	pescatarian	person who does not eat meat but does eat fish.	
3	Vegetarian	a person who does not eat meat or fish, and sometimes other animal products, especially for moral, religious, or health reasons.	
4	vegan	a person who does not eat any food derived from animals and who typically does not use other animal products.	
5	Omnivorous	an animal or person feeding on a variety of food of both plant and animal origin.	
6	Boiling	the action of bringing a liquid to the temperature at which it bubbles and turns to vapour.	
7	Frying	cook (food) in hot fat or oil, typically in a shallow pan.	
8	Deep frying	cook (food) in hot fat or oil, typically in a deep pan.	
9	Simmering	keep (food) just below boiling point when cooking or heating it	

Prior Learning		
10	High Risk food	Food poisoning bacteria grow more easily on some foods than others
11	Balanced diet	a healthy balanced diet containing foods from each food group, so they get a wide range of nutrients to help them stay healthy
12	Deficiency	the state of being deficient; lack; incompleteness; insufficiency.
13	Deficiency disease	a disease caused by a lack of one or more essential substances (as a vitamin or mineral) in the diet.
14	Scurvy	Lack of vitamin c

### GEOGRAPHY



Current Learning					
1	What is a brownfield site?	Land that has been previously built on			
2	What is a greenfield site?	Land that has not been previously built on			
3	What are the advantages of a brownfield site?	<ul> <li>Greater chance of gaining planning permission</li> <li>Utilities (water) are already in place</li> <li>There is the potential to retain the old building</li> </ul>			
4	What are the disadvantages of a brownfield site?	<ul> <li>Smaller area makes building more restricted</li> <li>Potential issues for accessibility of construction vehicles</li> <li>Clearing the land from previous use can be expensive</li> </ul>			
5	What are the advantages of a greenfield site?	<ul> <li>The land is usually cheaper</li> <li>Allows expansion of the city easing the pressure on space</li> <li>Larger area of land increases the potential of construction</li> </ul>			
6	What are the disadvantages of a greenfield site?	<ul> <li>Destruction of natural habitats</li> <li>Potential increase in noise and air pollution</li> <li>New utilities are required to be connected</li> </ul>			
7	What is urban sprawl?	The unplanned growth of a city into the countryside			
8	What is a commuter settlement?	Where the residents live in the village but commute every day into the city to work			
	Prior Learning				
9	What is urbanisation?	The increase in % of people living in urban areas, as people move from rural areas.			
10	Where did urbanisation first occur?	High income countries			
11	What has happened to urban population since 1950?	Rapidly increased			
12	What factors affect the rate of urbanisation?	<ul><li>Natural increase</li><li>Rural to urban migration</li></ul>			
13	What is natural increase?	Birth rate exceeds death rate			
14	What is rural to urban migration?	Moving from a rural area (countryside) to an urban area (town/city)			
15	What are push factors?	Factors that make you want to move away from an area			
16	What are pull factors?	Factors that make you want to move to an area			

# HISTORY



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Cur	rent	Lea	rning

1	What were the sole sources of power before the invention of the steam engine?	Wind, water, and muscle
2	What term describes achieving maximum productivity with minimum wasted energy?	Efficiency
3	Who built the first workable steam engine?	James Watt
4	In what year was the first workable steam engine built?	1776
5	Name two purposes that steam engines would fulfil during the 19th century?	Pumping water, weaving textiles, harvesting wheat, powering trains, printing newspapers, creating electricity
6	What term describes small-scale manufacturing taking place in people's homes?	Cottage industry
7	What term describes introducing machinery to speed up a process, or make it cheaper?	Mechanise
8	What two inventions were combined to create the 'Compton mule'?	Spinning jenny and water frame
9	Which industrialist and inventor is said to have built the world's first modern factory?	Richard Arkwright

### **Prior Learning**

10	What term was given to someone who publicly campaigned to end slavery or the slave trade?	Abolitionist
11	Which leading campaigner helped form the Society for the Abolition of the Slave Trade in 1787?	Thomas Clarkson
12	What term is given to a formal written request, often for a political cause, signed by many people?	Petition
13	What product did abolitionists organise a boycott of?	Sugar
14	Who was the leading campaigner against the slave trade in the House of Commons?	William Wilberforce
15	In what year did the British Parliament abolish the transatlantic slave trade?	1807
16	What was the name of the Royal Navy fleet sent by Britain to intercept slave ships?	West Africa Squadron
17	Whose court case victory, led to it being widely understood that slavery was illegal in Britain?	James Somerset
18	What was the name of the campaign group established by formerly enslaved people in Britain?	Sons of Africa
19	Who is thought to have been the first black man to have participated in a British election, in 1774?	Ignatius Sancho

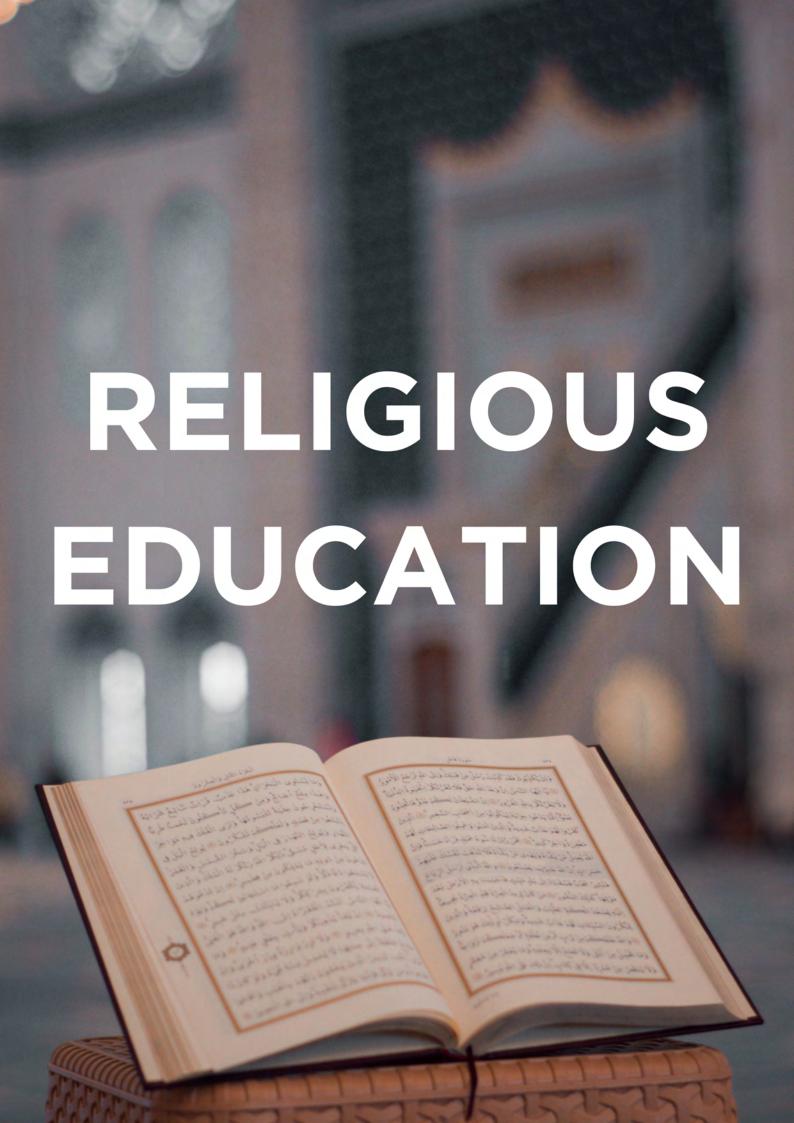
# MFL

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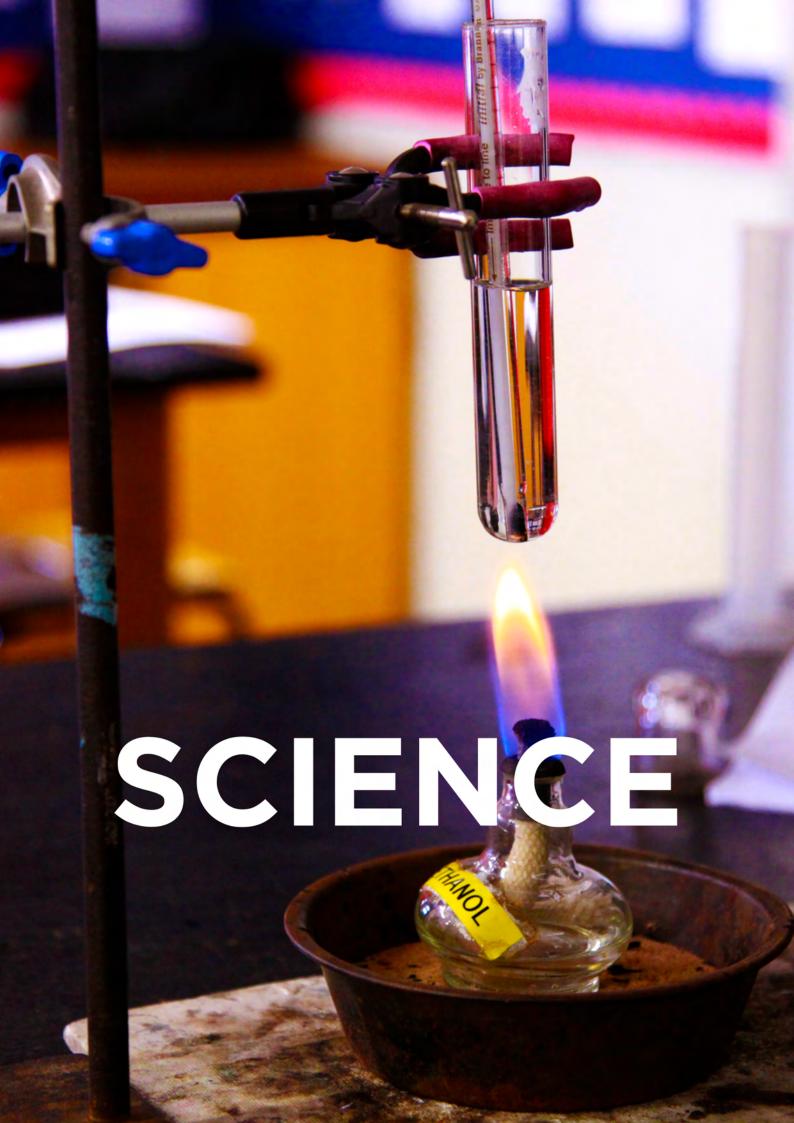
Current Learning group 6 (15 words)				
1	El año pasado	Last year		
2	Vi	I saw		
3	Fui a	I went to		
4	Vio	He/she sae		
5	Fue a	He/she went to		
6	Vimos	We saw		
7	Fuimos a	We went to		
8	Vieron	They saw		
9	Fueron a	They went to		
10	La semana pasada	Last week		
Prior Learning				
11	Jugar	To play		
12	lr-	To go		
13	Leer	To read		
14	Tocar	To play (an instrument)		
15	comer	To eat		



Current Learning					
1	Primary Chords	Chords 1, 4 and 5			
2	Stave	Five lines used to write staff notation on			
3	Treble Clef	Symbol representing higher pitched music, used in notation			
4	Bass Clef	Symbol representing lower pitched music, used in notation			
5	Tablature	Form of notation for guitar/ukulele using numbers to represent frets and lines for strings.			
6	Riff	Memorable section of a song that is usually repeated. Typically played by Guitar/Bass			
7	Ensemble	Group of performers			
8	Expression	Use of articulation and dynamics in music to improve performance			
9	Dynamics	Volume of the music – using this to improve a performance			
Prior Learning					
10	Style/Genre	The type of music e.g. pop/rap			
11	Decade	Period of 10 years			
12	Chord	Three notes played together at the same - notes 1, 3 and 5 of the scale.			
13	Staff Notation	Traditional music notation using a stave			
14	Chord Box	Diagram to display hand position on a guitar/ukulele to make a chord			



Current Learning				
1	Buddhism	A religion that started in India 2500 years ago, it is now the world's fourth largest religion.		
2	Buddha	The awakened or enlightened one.		
3	Caste System	A series of social classes that determine someone's job and status in Indian society.		
4	Dharma	The Buddhist teachings.		
5	Enlightenment	The state of being awakened to the truth about life.		
6	Four Sights	Four things seen by Siddhartha when leaving the royal palace - old age, sickness, death and a holy man.		
7	Five Precepts	Five rules all Buddhists are expected to follow.		
8	Karma	The forces that influence people's fortune and future rebirth		
9	Samsara	A continual process of life, death, and rebirth.		
Prior Learning				
10	Allah	Arabic word for God.		
11	Greater jihad	This refers to the duty of every Muslim to live a good life, staying faithful to the beliefs and obeying the commands of Islam.		
12	Monotheism	A belief in one God.		
13	Muhammad	The final prophet, to whom God revealed messages to, to be shared with people about how they should live their lives.		
14	The Five Pillars	These are the main points that support the religion of Islam. Muslims should observe these to help lead a good life. They are five individual acts of worship.		



Current Learning				
1	What does classification mean in biology?	Sorting living things into groups based on their structures and features.		
2	What do scientists call any living thing?	An organism, like a human, a tree, or even bacteria.		
3	How does a classification key help?	It helps identify organisms by asking questions about their traits.		
4	What does "dichotomous" mean in a classification key?	It means the key uses two choices at each step to sort organisms.		
5	Who created the classification system we use today?	Carl Linnaeus, a Swedish scientist who revolutionized how we group living things.		
6	What is a genus, and how should it be written?	A group of organisms below family and above species; it's written with a capital letter.		
7	What makes a species special?	It's a group of organisms that can mate and have offspring that can also reproduce.		
8	What is a vertebrate?	An animal with a backbone, like humans, birds, or fish.		
9	Can you describe an invertebrate?	Animals without a backbone, such as spiders, crabs, or jellyfish.		
10	What makes mammals unique?	They're warm-blooded, have fur or hair, and feed their babies with milk.		
11	What features do insects have?	Insects have three body parts, six legs, and usually one or two pairs of wings.		
Prior Learning				
12	Imagine a battery or a full stomach. What does it mean if something has an energy store?	It means it has energy saved up that can be used later or changed into another form.		
13	When you're running or riding a bike, what kind of energy do you have?	Kinetic energy, because you're moving.		
14	When you lift a ball high above your head, why does it have energy?	It has gravitational energy because it's high up and could fall.		
15	What kind of energy is in a chocolate bar or a car's fuel?	Chemical energy, stored in the food or fuel, ready to be released.		
16	When you stretch a rubber band, what kind of energy is stored?	Elastic energy, which is stored when the rubber band is stretched.		
17	When you touch something warm, like a mug of hot chocolate, what kind of energy are you feeling?	Thermal energy, which is the heat from the moving particles inside.		
18	Where is nuclear energy stored, and how is it released?	It's stored in the center of atoms and released during nuclear reactions.		
19	What happens when you turn on a lamp or a car engine?	Energy is transferred from one place or form to another, like electrical energy to light or heat.		
20	Why do things like machines get warm when they work?	Some energy dissipates as heat, spreading out and becoming harder to use.		
21	Why can't energy just appear or disappear like	The conservation of energy says energy can only be moved or		

changed into different forms.

magic?