	Kernow Learning	emy	Falmouth primary academy		
	Topic: Home from home		Year 4		Subject: Science
	What should I already know?	How	can living things be grouped and		Vocabulary
•	Animals can be arouped into vertebrates (and		classified?	biomes	A natural area of vegetation and animals.
	then further into fish, amphibians, birds and			carnivore	An animal that eats meat.
	animals) and invertebrates.	● All li do ce	ving things, which can be also called organisms, have ertain things to stay alive.	classification key	A system which divides things into groups or types.
	herbivores and omnivores.			criteria	A factor on which something is judged.
•	The names of some common wild and garden	 Livin (wh 	ig things can be grouped according to different criteric ere they live, what type of organism they are, what fe	environment	All the circumstances, people, things and events around them that influence their life.
	plants and deciduous and evergreen trees.	tures	s they have).	evergreen	A tree or bush which has green leaves all the year round.
•	and the animals and plants that can be found	 For e 	example, a camel can belong in a group of vertebrates,	a excretion	The process of eliminating waste from the body.
	there.	grou mals	p of animals that live in the desert, and a group of an that have lour legs.	_ food chain	A series of living things which are linked to each other because each thing feeds on the one next to it in the
	Scientific Skills		aut can an improvente change?		
•	Ask relevant questions and use different types of scientific enquiries to answer them.	H	ow can environmenus change?	habitat	The natural environment in which an animal or plant lives or grows.
		• Habi	tats can change throughout the year and this can hav	e herbivore	An animal that only eats plants.
•	Make systematic and careful observations and, where appropriate, take accurate measurements,	an ej	ffect on the plants and animals that live there.	invertebrate	A creature that does not have a spine, or example an insect, worm or octopus.
	using a range of instruments	 Hum envir 	ans can have positive and negative effects on the ronment.	life processes	There a seven life processes that tell us that living things are alive.
	variety of ways to help with answering ques- tions.	• Dosit	tive effects include nature reserves, ecalogical narks.	microhabitat	A small part of the environment that supports a habitat, such as a fallen log in a forest.
		- 1034	uve egiecus uteritate mata e reserves, ecologicai parks.	minibeast	A small invertebrate animal such as an insect or spider.
•	Use straightforward scientific evidence to answer questions or to support his/her	• Nega	utive effects include litter, urban development.	nutrition	The process of taking food into the body and absorbing the nutrients in those foods.
	<i>ม</i> ากมาเมร.	Diggram	c	omnivore	Person or animal who eat all kinds of good, including both meat and plants.
		Diagram	S/	organism	A living thing.
[A classification		The seven life	reproduction	When an animal or plant produces one or more individuals similar to itself.
A	classification key is		REPRODUCTION RECEVENTION PROCESSES	respiration	Process of respiring; breathing; inhaling and exhaling air.
a	tool that is used to 👯 📑	foist skin	FUNDETION MAS GREN	sensitivity	Responding to the external environment.
gr ha	oup usidentify them	No scales	WINTY D	vertebrate	A creature which has a spine.
		Amphibian	eoutra a secondaria de la companya d		

Falmouth primary academy Falmouth Primary Academy **Kernow**Learning Topic: Home from home Subject: Science Year 4 3. Write the word of each living thing in the Venn diagram to show where they belong. 1. Which of these is not a vertebrate? Pre Post (**Tick** all the correct unit: unit: R answers) can be found in bird camel has four legs the desert P mammal cactus reptile aras insect polar bear

salmon

sparrow

nabbit

₩ frog

۲ whale

2. A duck and a fish are similar because (Tick three)	Pre unit:	Post unit:
they are both vertebrates		
they both need food and wa- ter to survive		
they both breathe using gills		
they are both invertebrates		
they both lay eggs		

amphibian

	can fly	can not fly
lays eggs		
does not lay eggs		

						primary academy		
Topic: Home from	home	Yea	r 4		Subject: Science			
5. Complete the table by writing the	r name of the minibeast in th	e right place.						
	الله fly	spider	worm	ants				
	name		legs		wings			
			6		0			
			0		0			
			8		0			
			6		2			

	Kernow Learning	F	Falmouth primary academy				
	Topic: What powers Earth?		Year 4		Subject: Science		
	What should I already know?	How does	electricity power our dynamic		Vocabulary		
•	Electricity is a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for	• Electricity is	Earth? s generated using energy from natura	Appliances	A device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical.		
	devices.	sources suc	h as the Sun, oil, water and wind.	Battery	items such as torches.		
•	Sources of light and sound may need electricity to work.	• Some appliant mains elect	ances use batteries and some use ricity.	Bulb	The glass part of an electric lamp, which gives out light when electricity passes through it.		
	Scientific skills	Batteries co	me in different sizes depending on ho	Buzzer	An electrical device that is used to make a buzzing sound.		
•	Research how to work safely with	much ana f	or now long the appliance is used.	Cell	A synonym for battery.		
•	eieculuug. Make a variety of circuits, investigating	• A complete current to f	circuit is a loop that allows electrical low through wires.	Component	The parts that something is made of.		
	which circuits work and why. Name the basic parts including cells, bat-	• A circuit con	ntains a battery (cell), wires and an	Conductor	A substance that heat or electricity can pass through or along.		
	teries, wires, bulbs, switches, motors and	appliance t	hat requires electricity to work (such (us Current	A flow of electricity through a wire or circuit.		
•	buzzers. Draw circuits using pictorial representa- tions (not circuit symbols).	The electrice the battern	or or buzzer). al current flows through the wires fro (cell) to the bulb, motor or buzzer)	Electricity	A form of energy that can be carried by wires and in used for heating and lighting, and to provide power for devices		
•	Create circuits using switches.	A switch ca	n break or reconnect a circuit (turn th	Energy e	The power from sources such as electricity that makes machines work or provides heat.		
•	Investigate which materials are electrical	electricity o	n or off)	Insulator	A non-conductor of electricity or heat		
		Diagrams		Mains	Where the supply of water, electricity, or gas en- ters a building		
) 👌 🚺		Motor	A device that uses electricity or fuel to produce movement.		
		ister lamp kettle		power	Power is energy, especially electricity, that is ob- tained in large quantities from a fuel source and used to operate lights, heating, and machinery		
Г		top X-box phone		Source	Where something comes from.		
	have a battery (cell) and a component (bulb). The wires are	headlights television	as they are incomplete.	Switch	A small control for an electrical device which you use to turn the device on or of ${\bf f}$		
	placed in the right places of the Common of	ppliances that use e	lectricity.	wires	a long thin piece of metal that is used to fasten things or to carry electric current.		

Kernow Learning			Falmouth Primar	Falmouth primary academy						
Topic: What p	owers Ea	rth?	Year 4	Year 4			Subject: Science			
1. Another name for a battery is: (Tick one)	Pre unit:	Post unit:	5. Which of these circuits will light? (Tick one)	Pre unit:	Post unit:	7. Why won't this circuit work?				
circuit			<u>A</u>				Pre	Post		
light huzzer							unit:	unit:		
cell			0							
2. Which of these needs a battery to work? (Tick more than one)	Pre unit:	Post unit:								
torch										
mobile phone										
games console										
car			-							
3. How will you know if a material conducts electricity? (Tick one)	Pre unit:	Post unit:								
Electricity will flow freely and the circuit will work			0			8 When more batteries an				
Electricity will not flow and the circuit will not work.						added to a complete circuit	Pre unit:	Post unit:		
The battery will not work.			6. Objects that are made from			The light build does not go on.				
4. Which of these are conductors of electricity?	Pre unit:	Post unit:	electricity to pass through are called:	Pre unit:	Post unit:	The light bulb becomes brighter.				
plastic comb			conductors			The circuit does not work.				
aluminium spoon			insulators			The switch goes off.				
copper coin			batteries							

	Kernow Learning		Falmouth Primary Acaden	Falmouth primary academy			
	Topic: The Evacuees	y	Year 4	Subject: Science			
W	'hat should I already know?	How do	the states of matters change?		Vocabulary		
•	Why some materials are used for certain purposes because of their	What are particle	<u>vs?</u>	condensation	Small drops of water which form when water vapour or steam touches a cold surface.		
	properties.	- Particles are wi - They are so sm	rat materials are made from. all that we cannot see them with our eyes.	cooling	Lowering the temperature of something.		
•	Some examples of solids, liquids and gases.	- The properties of like, how they me	of a substance depend on what its particles are ove and how they are arranged.	evaporation	To turn from liquid into gas; pass away in the form of vapour.		
	Scientific Skills	- Particles behav	e differently in solids, liquids and gases.	freezing	If a liquid or a substance containing a liquid freezes, it becomes solid because of low temperatures		
•	Ask relevant questions and use different types of scientific enquiries to answer them. Set up simple practical enquiries.	- In the solid stat - They have vibro form a regular po - Solids always t	te, the material holds its shape. uting particles which are closely packed in and uttern which is why a solid can't be poured. ake up the same amount of space.	freezing point	The freezing point of a particular substance is the temperature at which it freezes. The freezing point of water is 0°C.		
	comparative and fair tests	Liquids		heating	Raising the temperature of something.		
•	Report on findings from enquiries, including oral and written	-Liquids can char	nge shape, depending on the container it is in. cles which are close together but random.	melting	To change from a solid to a liquid state through heat or pressure.		
	explanations, displays or presenta- tions of results and conclusions.	- Liquids can be	· Liquids can be poured.		The melting point of a particular substance is the temperature at which it melts.		
•	Identify differences, similarities or changes related to simple scientific ideas and processes.	<u>Gases</u> - In the gas state - Gases have par	e, particles can escape from open containers. ticles which are spread out and move in all	precipitation	Rain, snow, sleet, dew, etc, formed by condensation of water vapour in the atmosphere.		
		Diggrams	S,	process	A series of actions used to produce something or reach a goal.		
				properties	The ways in which an object behaves.		
		Wł	rat is the	temperature	A measure of how hot or cold something is.		
		Wa	ter Cycle? Condectsation	vibrations	When something vibrates, it shakes with repeated small, quick movements.		
ice	water water vapour	80808	Snoverhait Fluxoft	water cycle	The process by which water on the earth evaporates, then condenses in the atmosphere, and then returns to earth in the form of precipitation.		
	vnat nappens to the particles in water when it is heated or cooled?	solid liquid	gas Plant Uptake Groundwater Flow	water vapour	Water in the gaseous state.		

Kernow Learning				Falmouth Prii	nary Academ		Falmouth primary academy		
Topic: The E	vacuees			Year 4			Subject: Science		
1.The particles in a solid: (Tick one)	Pre unit:	Post unit:	4. M	atch the states to the co	prrect particle structures.		6. Match these changes to the process.	he scientific name for	
are closely pack together and vibrate.			Pre i	unit:			Pre unit:		
move freely over each other within a container in which they are held.				solid	0.00		water	condensation	
can be poured.				liquid			water vapour	evaporation	
are very spread out and can escape an open container.					********		water vapour	melting	
2.The particles in a liquid: (Tick one)	Pre unit:	Post unit:		gas	රිංරිංරි		Post unit:		
are closely pack together and vibrate.			Post	unit:			ice turns to	condensation	
move freely over each other within a container in which they are held.				solid	0.00		water water turns to	condensation	
can be poured.							water vapour	evaporation	
are very spread out and can escape an open container.				liquid			water vapour turns to water	melting	
2.The particles in a gas: (Tick one)	Pre unit:	Post unit:		gas	0-0-0		7. Explain why puddles get sn	naller after it has rained.	
are closely pack together and vibrate.					00000		Pre unit:	Post unit:	
move freely over each other within a container in which they are held.			5. Wł	hat is the freezing point	t of water?				
can be poured.				Pre uru:	Post unit:				
are very spread out and can escape an open container.									

	KernowLearning	Falmouth Primary Academy	,	Falmouth primary academy		
Тор	pic: What was it like growing up in	Europe? Year 4	Subject: Science			
	What should I already know?	How do we change as we get older?	١	Vocabulary		
•	• Humans change physically as they grow from child into adult.	• Describe the main stages of the human life cycle.	breasts	Soft organs on the front of a woman's chest which secrete milk after child birth.		
	• The main difference between male and female bodies.	 Describe the body changes that happen when a child grows up. 	eggs	The part of the female that helps create a baby		
	• The scientific names for all body	• Know that during puberty the body changes	life-cycle	The stages a living thing goes through during its life.		
	parts.	from a child into a young adult.	physical changes	Changes to the body that can be seen.		
	Scientific objectives	 Other such a why the body changes in paper y. Identify some basic facts about pregnancy. 	pregnancy	The time during which a woman is expecting a baby.		
	common to humans and other animals include nutrition, move-	 Know the physical changes that happen in puberty 	puberty.	 Physical changes through which a child's body matures into an adult body. Hair that begins to grow around private parts and under arms during puberty. The biological process by which babies are produced from their parents. 		
•	 Learn about the main stages of the 	• Know that each person experiences puberty differently	pubic hair			
	numan uje cycle.		reproduction			
			sperm	The part of the male that helps create a baby		
		Diagrams				
	Height You get taller. Face	ns? 6. <u>1. 2.</u>	Face You may get pimples.	Puberty: What Happens?		
	You may get pimples. Voice Your voice deepens.		Sweat Your armpits sweat.	Height You get taller.		
	Your penis and testicles get bigger.	5. 4. <u>by turn (</u>	Menstruation Your period begins.	Breasts Your breasts grow.		

Hair Hair grows on your face, arms, legs, chest, armpits, and between your legs.



Hair Hair grows in your armpits, on your legs, and between your legs.

KernowLearnin	ng			Falmouth Primary Academy					Falmouth primary academy	
Topic: What was it like	e growir	ig up in	Europe?	rope? Year 4 Subject				Science		
1. As we grow older, we get more on our bodies. (Tick one)	Pre unit	Post unit	2. Tick the description (Tick one) The stages	correct of a life cycle. where a child	Pre unit	Post unit	3. Physical changes occur as a child grows into an adult. (Tick one) True	Pre unit	Post unit	
Hair Freckles			The stages changes int	where a baby or a child only.			False			
Scales			The stages through du	a living thing goes ring its life.						
4. Circle the changes males during puberty.	that ha	ppen to	5. Circle females d	5. Circle the changes that happen to females during puberty.			6. Which main stage is missing from the human life cycle? toddler, adult, elder, teenager, baby or child?			
Grows tal	ller			Grows taller						
Has hair under	the arm	S⁄	Ha	s hair under the arr	ns		6.			
Develops pub	ic hair			Develops pubic hair			1.	2.		
Grows hair on	the face	L I	Gr	ows hair on the fa	ce					
Hips widen Breasts grow Hair on legs Periods start			Hips widen							
				Breasts grow				3.		
				Hair on legs						
				Periods start)			
Voice gets d	Voice gets deeper Voice gets deeper					4.				
Shoulders get	broader		SI	roulders get broade	ur 🛛		N	- 1		
Feet get bigger Feet get bigger			Year 4 Dopyright The Christopher Winter Pro							

	Kernow Learning	Falmouth Primary Academy Falmouth primary academy					
	Topic: Why is Henry VIII famo	us?	Year	- 4	Subject: Science		
	What should I already know?	What	are the functions	of our digestive		Vocabulary	
•	The parts of the human body and what		system and to	zeth?	absorb	Soak up or take in.	
•	they do. Animals aet nutrition from what they eat.	• The s	mell of food triggers salir	ra to be produced. The	canine	Pointed teeth near the front of the mouth of hu- mans and of some animals.	
	Humans and some animals have shaletons	diges when	tive system begins with t e lood is indested and cha	he mouth and teeth	carnivore	An animal that eats meat.	
-	and muscles for support, protection and				decay	Gradually destroyed by a natural process.	
	movement.	Saliv	a is mixed with the food v	which helps to break it	digestion	Breaking down ingested food material.	
•	Excretion is one of the seven living processes.	• Wher	ı the food is small enough	r to be swallowed, it is	enamel	The hard white substance that forms the outer part of a tooth	
		push	ed down the oesophagus	by muscles to the	excretion	The process of eliminating faeces, urine, or sweat	
	Scientific Skills	• In th	ich. e stomach the mixed lood	is mixed lurther then	faeces	The solid waste substance that people and ani- mals get rid of from their body.	
•	Ask relevant questions and use different	sent to the small intestine which absorbs nutrients			herbivore	An animal that only eats plants.	
	types of scientific enquiries to answer them	from	from the food.			The teeth at the front of your mouth.	
•	Gather, record, classify and present data in a variety of ways to help with answering	• Any l large	eftover broken down food intestine.	then moves on to the	ingested	When animals or plants ingest a substance, they take it into themselves, for example by eating or absorbing it	
	questions	• The f when	ood minus the nutrients a e muscles turn it into faec	urrives in the rectum ces. It is stored here	intestines	The tubes in your body through which food pass- es when it has left your stomach	
•	Record findings using simple scientific language, drawings, labelled diagrams,	until cretic	it is pushed out by the ar n.	uus. This is called ex-	molar	The large, flat teeth towards the back of your mouth.	
	keys, bar charts, and tables.	Jiggrame			oesophagus 1	The part of your body that carries the food from the throat to the stomach.	
Prei	nolars	Jugiuns	The Digestive System	n Mouth	omnivore	Person or animal eats all kinds of food, including both meat and plants.	
	Molar Teeth are used	l for cutting	and	Oesophagus	plaque	A substance containing bacteria that forms on the surface of your teeth.	
Inc	isors Humans look	after their tea	th	Esophagus	premolar	Two situated on each side of both jaws between the first molar and the canine .	
	Names and location of the loods high in	they do not o sugar.	eat	Liver Stomach Pancreas	saliva	The watery liquid that forms in your mouth and helps you to chew and digest food .	
	of the different types of teeth. lead to an inc and tooth dec	rease in plaq	Appendix	Small Intestine	stomach	The organ inside your body where food is digested before it moves into the intestines.	

Kernow Learning			Falr	nouth Prime	ary Academ	Falmouth primary academy			
Topic: Why is Henr	j VIII fa	mous?		Year 4	ł		Subject: Scienc	re	
1. Place these in order of what happens in the digestive sys- tem by numbering them 1—4.	Pre unit:	Post unit:	4. Name t Pre unit:	two ways we can loo	ok after our teeth.		5. The substance that contains bacteria on the surface of your teeth is called (tick one)	Pre unit:	Post unit:
Teeth chew food and saliva helps the food to break down.							plaque		
Any final nutrients are absorbed before waste is pushed out by the anus.							canines molars		
In the stomach the food is mixed further and then sent to the intestines			Post unit:	:			canines		
The food is pushed down the oesophagus to the stomach.							6. Tooth decay occurs when teeth are kept healthy.	Pre unit:	Post unit:
 Which of these life processes takes place when waste is pushed out? (tick one) 	Pre unit:	Post unit:					True		
respiration						I	False		
excretion							7. What is the name of the sub break down food? (write one v	ostance tha vord)	t helps
growit Pre unit:									
3. Label the types of teeth; incisors, molars, premolars, canines. Pre unit: Post unit:									
	\sim					1			
							Post unit:		

	Kernow Learning	my	y Falmouth primary academy				
	Topic: Who were the Romans?		Year 4	Subject: Science			
	What should I already know?	How	can sounds be made, heard and	Vocabulary			
•	Hearing is one of my five senses.		changea?	amplitude	A measure of the strength of a sound wave.		
•	Sounds can be combined using musical instruments.	• A soi hear	ind in something that can be I.	volume	A measure of how loud or soft something sounds and is relat-		
•	What the word vibration means.	• When made	r objects vibrate, a sound is 2.		ed to the strength of the vibra- tions.		
	Scientific skills	• The	ibration makes the air around the object vi-	sound	Vibrations that travel through		
•	Ask relevant questions and use different types of scientific enquiries to	brate are c	and the air vibrations enter your ear. These alled sound waves.		can be heard.		
•	answer them. Set up simple practical enquiries, comparative and fair tests	• When	r an object vibrates, the air around it vibrate This vibrating air can also be known as sour	s, energy ad	The power to make something work. It comes from different sources.		
•	Gather, record, classify and present data in a variety of ways to help with answering questions.	• The eard	ound waves travel to the ear and make the ums vibrate.	particles	An extremely tiny piece of matter that make up every- thing.		
	Record findings using simple scientific	 Mess brain 	ages are sent to the which recognises the	pitch	How high or low a sound is.		
	language, drawings, labelled diagrams, keys, bar charts, and tables.	vibra	tions as sounds	vibration	A rapid motion back and forth/ up and down.		
	Diagrams	source	Where something comes from.				
	Pitch Long create	sound wave e a low pitch	s quieter	absorb	To take in or soak up some- thing.		
1 2 3	Short s	ound waves	Inder The closer you are to the source of th	, wave	Moving energy. When some- thing vibrates, sound waves are created.		
	create	a high pitch.	The further away you are from the source of the sound, the quieter the sound will be.	2			

KernowLearning Falmouth Primary Academy						Fal	Falmouth primary academy		
Topic: Who were	the Rom	ans?	Year 4			Subject: S	Science		
1. How does sound travel? (Tick one)	Pre unit:	Post unit:	3. When the volume of a sound increases, this is be- cause (Tick one)	Pre unit:	Post ur	5. True or false? When the distance to a is made greater, the so gets (Tick one)	sound ind i	Pre unit:	Post unit:
In a straight line			you turned it up.			Louder			
In a curvy line					Quieter				
As a series of vibrations			there are stronger vibra- tions.						
By making a noise.			nothing changes.			6. Sound can travel thr (Tick one)	ough	Pre unit:	Post unit:
						water.			
2. The volume of a sound is measure in (Tick one)	Pre unit:	Post unit:	4. On a stringed instrument the pitch can be changed by	Dre unit.	Dept up	the air.			
decibels				Pre utu.	Posturi	the floor.			
cantimatres.			hitting the string harder.			all of the above.			
			hitting the string softer.						
kilograms			tightening the string.				urations.	Pre	Post
miles			loosening the string .			(Tick one)		unit:	unit:
		<u> </u>							

False

Kernow Learning	Falmouth Primary Academy	Falmouth primary academy
Topic: Who were the Romans?	Year 4	Subject: Science

ů.	lejintion.	U
Sound	A measure of how loud or soft something sounds and is related to the strength of the vibrations.	
Volume	How high or low a sound is.	
Pitch	Vibrations that travel through the air or another medium and can be heard.	
m. 8. Match the key words with the correct.		
	regulation.	Er
Sound	A measure of how loud or soft something sounds and is related to the strength of the vibrations.	Er Ui
Sound Gospel	A measure of how loud or soft something sounds and is related to the strength of the vibrations. How high or low a sound is.	Ei U