	Reception (Understanding the world):			Early Learning Goal:			
	<ul> <li>Explore the natural world around them. (park, city, countryside)</li> <li>Describe what they see, hear and feel whilst outside.</li> <li>Recognise some environments that are different from the one in which they live.</li> <li>Understand the effects of changing seasons on the natural world around them.</li> </ul>			<ul> <li>Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.</li> <li>Explore the natural world around them, making observations and drawing pictures of animals and plants.</li> <li>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.</li> <li>Understand some important processes and changes in the natural world around them, including the seasons and changes in matter.</li> </ul>			
	Year 1	Year 2	Year 3		Year 4	Year 5	Year 6
	Summers (A and B) -Identify and name a variety of common wild and garden plants, including deciduous (oak/maple/willow) and evergreen trees (conifer/pine/Christmas) -Identify and describe the basic structure of a variety of common flowering plants, including trees.	Pendower (A and B) -Observe and describe how seeds and bulbs grow into mature plants. (sunflower, bean, daffodil) -Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Porthcurnick (A) -Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. -Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. -Investigate the way in which water is transported within plants. -Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed				
			dispersal. Voca	oularu			
Plants	Plant, leaf, grow, weed, change, living, water, healthy, similar to, different from, healthy, pollen, flower, roots, stem, leaves, evergreen, deciduous, trunk, bark	seed, disperse, wind, pollination, bulb, hydroponics, water, warmth, nutrients, warmth, light, water, dry, wet, moist, growth, germination, seed, bean, leaves, stem, roots	plants, growth, light, warmth, air, soil, water, investigate, seedlings, research, seedlings, research, height, root, stem, leaves, flowers, petals, buds, fruits, seeds, classify, light level, temperature, wilting, yellowing	Satting			
	The Tinu Seed (Eric Corto)	Jack and the Beanstelle	Books and K	<mark>ley Scienti</mark>	sts		
	Bloom (Anne Booth & Robyn Owen Wilson)         The Little Gardener (Emily Hughes)         Key Scientists: Jane Colden (Botanist)         Image: State	Jack and the Bednstalk (Richard Walker)         Ten Seeds (Ruth Brown)         A Seed Is Sleepy (Dianna Aston)         Key Scientists: Jeanne Baret (Introduced 70 plants to Europe)         TENSEEDS (Introduced 70 plants to Europe)         Image: State of the s	<ul> <li>The Story of Frog Beluy Kat Bone (Timothy Basil Ering)</li> <li>The Hidden Forest (Jeannie Baker)</li> <li>George and Flora's Secret Garden (Jo Elworthy)</li> <li>Key Scientists: William Gilbert (Theories on Magnetism)</li> <li>Andre Marie Ampere (Founder of Electro-Magnetism)</li> <li>Image: Store Starses</li> <li>Image: Store Store Starses</li> <li>Image: Store Sto</li></ul>				

	Summers (A and B) -Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. -Identify and name a variety of common animals that are carnivores, herbivores and omnivores.	Pendower (A and B) -Notice that animals, including humans, have offspring which grow into adults. -Find out about and describe the basic needs of animals, including humans, for survival (water, food and	Porthcurnick (A) -Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. -Identify that humans and	Porthcurnick (A) -Describe the simple functions of the basic parts of the digestive system in humans. -identify the different types of teeth in humans and their simple functions.	Portholland (A) -Describe the changes as humans develop to old age.	Porthluney (A) -Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. -Recognise the impact of diet, exercise, drugs and
	-Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). -Identify, name, draw and	air). -Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	some other animals have skeletons and muscles for support, protection and movement.	-construct and interpret a variety of food chains, identifying producers, predators and prey.		lifestyle on the way their bodies function. -Describe the ways in which nutrients and water are transported within animals, including humans.
rans	label the basic parts of the human body and say which part of the body is associated with each sense.		Voral			
Ę			vocai	bulary		
Animais, incluaing nu	compare, describe, similar, different, baby, adult, changes, growing, measure, record, data, gather, predict, centimetre, millimetre, touch, sight, smell, taste, hear, sense, behaviour, habitat, living things, damp, shady, dry, vertebrate, invertebrate, backbone	egg, chick, hatch, baby, adult, grow, change, feathers, observe, record, young, old, adult, basic needs, water, food, air, breathing, survival, heart, beating, healthy, exercise, fruit, vegetables, bread, rice, potatoes, pasta, milk, dairy, food high in fat, sugar, meat, fish, egg, beans	carbohydrates, proteins, dairy, fats, sugars, vitamins, minerals, fibre, growth, repair, health, energy, vertebrate, invertebrate, bone, skeleton, skull, ribcage, pelvis, femur, muscles, joints, tendons, contract, relax, biceps, triceps, teeth, incisors, molars, canines, jaw, evidence,	herbivore, carnivore, omnivore, nutrition, diet, food chain, data, table, bar chart, digestion, chew, saliva, digestive system, nutrition, mouth, teeth, saliva, oesophagus (gullet), stomach, small intestine, large intestine, rectum, anus, faeces (poo)	scatter and line graphs, bar charts, causal relationships, support/refute, gestation, life cycle, sperm, egg, foetus, nutrition, uterus, development, healthy, comparison, centile, adolescence, adolescent, puberty, teenager, reproduction	blood, blood vessels, arteries, veins, capillaries, heart, pumps, oxygen, carbon dioxide, lungs, nutrients, water, circulatory system, exercise, diet, lifestyle, health
			Books and K	ley Scientists		
	The Most Important Animal of All (Penny Worms & Hannah Bailey) The Big Book of Beasts (Yuval Zommer)	Handa's Surprise (Eileen Brown) Once There Were Giants (Martin Waddell and Penny	Funnybones (Janet and Allan Ahlberg) I Will Never Not Ever Eat a Tomato (Lauren Child)	<b>Gut Garden</b> (Katie Brosnan) Look Inside: What Happens When You Eat? (Emily Bone and Stefano Tognetti)	Humans Body Odyssey (Werner Holzwarth) Crocodiles Don't Brush Their Teeth (Colin Fancy)	<b>Pig-Heart Boy</b> (Malorie Blackman) <b>Skellig</b> (David Almond)
	<b>Gorilla</b> (Anthony Browne) <b>Key Scientists:</b> <b>Carl Hagenbeck</b> (first zoo enclosure	Jale) Tadpole's Promise (Jeanne Willis and Tony Ross) Key Scientists:	Goldilocks and the Three Bears (Samantha Berger) Key Scientists:	Your Brilliant Body: Your Growling Guts and Dynamic Digestive System (Paul Mason) Key Scientists:	Wolves (Emily Gravett) Key Scientists: Dame Anne McLaren	A Heart Pumping Adventure (Heather Manley) Key Scientists: Marie Maynard Daly
	BEASTS BEASTS WITH ALLA WALLA	David Attenborough (Naturalist and Nature Documentary Broadcaster)	Marte Curie     I will Never (Radiation / XRays)       I will Never NOT EVER Est a Tomato       I point of the second second second second second second second terms of the second second second second second second terms of the second secon	Washington Sheffield (Toothpaste)	(IVF) Ivan Pavlov (Digestive System Mechanisms) Joseph Lister (Discovered Antiseptics) WOLVES UNIVES	(Cholesterol) <b>Tu Youyou</b> (Treatment for Malaria) <b>Professor Dame Sarah Gilbert</b> (Covid) <b>Pigent</b> <b>Discharger</b> <b>Discharger</b> <b>Discharger</b>

	Summers (A and B)		Pendower (A and B)		Porthurnick (B)		Portholland (A)	
	-Distinguish between an		-Identify and		-compare and group		-compare and group	
	object and the material from		compare the		materials together, according		together everyday	
	which it is made.		suitability of a		to whether they are solids,		materials on the basis	
			variety of everyday		liquids or gases		of their properties,	
	-Identify and name a variety		materials, including		-observe that some materials		including their	
	of everyaay materials,		wooa, metal, plastic,		change state when they are		naraness, solubility,	
	including wood, plastic,		glass, brick, rock,		neated or cooled, and		transparency,	
	glass, metal, water, and		for particular uses		temperature at which this		and	
	TOCK.		joi particulai ases.		hannens in dearges Celsius		thermal) and	
	-Describe the simple physical		-Find out how the		(°C)		response to magnets	
	properties of a variety of		shapes of solid		-identify the part played by		-know that some	
	everyday materials		objects made from		evaporation and		materials will dissolve	
			some materials can		condensation in the water		in liquid to form a	
	-Compare and group		be changed by		cycle and associate the rate		solution, and describe	
	together a variety of		squashing, bending,		of evaporation with		how	
	everyday materials on the		twisting and		temperature.		to recover a	
	basis of their simple physical		stretching.				substance from a	
	properties.						solution	
							-use knowledge of	
							solids, liquids and	
							gases to decide how	
							mixtures might be	
							separatea, incluaing	
							sieving and	
							evaporatina	
							-Give reasons based	
							on evidence from	
							comparative and fair	
							tests, for the	
							particular uses of	
							everyday materials,	
							including metals,	
							wood and plastic.	
							-Demonstrate that	
S							dissolving, mixing and	
ja							changes of state are	
lter						als	reversible changes.	
Ĕ						teri	Explain that some	
<sup>a</sup>						Ma	-Lipiain that some	
Ъ		als				of	formation of new	
S		teri				ges	materials and that	
		D L				lan	this kind of change is	
		lay				ц С	not usually reversible,	
		ryd				pup	including changes	
		eve				es	associated with	
							burning and the	
		of				erti		
		lses of				roperti	action of acid on	
		Uses of				Properti	action of acid on bicarbonate of soda.	
	much (an each () - ()	Uses of	iel energy t	Voca	bulary	Properti	action of acid on bicarbonate of soda.	
	rough/smooth, flat/bumpy,	nate	rial, properties,	Voca	bulary solid, liquid, state, matter,	<b>Properti</b>	action of acid on bicarbonate of soda.	
	rough/smooth, flat/bumpy, sharp/blunt, wood, metal, plastic class rock materials	nate absor	rial, properties, bency, waterproof,	Voca	bulary solid, liquid, state, matter, particle, grain, category, classifu, group, gyidence	<b>Lobert</b>	action of acid on bicarbonate of soda. bles, accuracy, sion, enquiry, solid,	
	rough/smooth, flat/bumpy, sharp/blunt, wood, metal, plastic, glass, rock, materials, properties_sharp/blupt.useful	mate absor stron	rial, properties, bency, waterproof, g, weak, hypothesis, bency, resist melting	Voca	bulary solid, liquid, state, matter, particle, grain, category, classify, group, evidence, question, discuss, gas, state	<b>Lobert</b> i Preci liquid	action of acid on bicarbonate of soda. bles, accuracy, sion, enquiry, solid, d, gas, dissolve, soluble, e, solution line graph	
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	Summers (A and B) - Observe changes across the four seasons. -Observe and describe weather associated with the seasons and how day length varies.					
				Nularu		
al changes	rain, snow, storm, thunder, lightning, cloudy, clothing, warm, cold, forecast, rainfall, precipitation, wind, direction, gauge, patterns, data, temperature, thermometer, shadow, sun, earth, spin, day, night, light, dark		Vocat Books and K	eu Scientists		
asone	<b>The Weather Girls</b> (AKI Delphone Mach)					
Se	<b>Tree: Seasons Come, Seasons Go</b> (Patricia Hegarty)					
	<b>Hello Spring</b> (Jo Lindley)					
	<b>Key Scientists:</b> Joseph Henry (Weather Forecasgtign)					
	Heller Spring Construction Wether Girls					
	2 8 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Dendewer (Aland P)		Douth alloyed (D)	Douth all and (D)	Parthlur av (P)
		Pendower (A and B) -Explore and compare the differences between things that are living, dead, and things that have never been alive. -Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.		Portholland (B) -Recognise that living things can be grouped in a variety of ways. -Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. -Recognise that environments can change and that this can sometimes pose dangers to living things	Portholland (B) -Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. -Describe the life process of reproduction in some plants and animals.	Porthluney (B) -Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. -Give reasons for classifying plants and animals based on specific characteristics.
their habitats		-Identify and name a variety of plants and animals in their habitats, including micro-habitats.		tnings.		
Living things and		-Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.				
		living dead never been	Vocat	alive dead never been		classification binadom
		alive, categories, classification, needs air, feeds, grows, reproduces, microhabitat, damp/wet/dry, dark/light, features, habitat, savannah, rainforest, tundra, food chain, predator, habitats, dependence, seasons, shady		alive, novement, reproduction, sensitivity, nutrition, excretion, respiration, growth, habitat, local, natural, man-made, observation, record, vertebrate, invertebrate, arachnid, question, classify, sort, group, similar, different, branching		phylum, class, order, family, genus, species, Linnaeus, opinion, similarities, differences, support, refute
				database, identify, variety, question, explore, key		
			Books and K	ey Scientists		

ſ		<b>The Gruffalo</b> (Julia Donaldson)		<b>The Vanishing Rainforest</b> (Richard Platt)	<b>Beetle Boy</b> (M G Leonard)
		Meerkat Mail (Emily Gravett) No Place Like Home (Jonathon Emmett) Key Scientists: Jane Goodall		The Morning I Met a Whale (Michael Morpurgo) Journey to the River Sea (Eva Ibbotson) Key Scientists: James Brodie of Brodie	Insect Soup (Barry Louis Polisar) Fur and Feathers (Janet Halfmann) Key Scientisst: Carl Linnaeus (Iductifician Newige and Classifician
		(English primatologist)         Linda Brown Buck (Reptile's noses)         Image: Comparison of the state of the stat		(Reproduction of Plants by Spores) Eva Crane (Bee's behaviour)	(Identifying, Naming and Classifying Organisms) Libbie Hyman (Invertebrates and Vertebrates)
			Porthcurnick (B) and RECAP in A -Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. -Describe in simple terms		
			how fossils are formed when things that have lived are trapped within rock. -Recognise that soils are made from rocks and organic matter.		
			Vocal	bulary	
	Rocks		rock, sandstone, limestone, chalk, granite, slate, marble, classification, observation, petrologist, man-made rocks, brick, tile, concrete, igneous, sedimentary, metamorphic, permeable, impermeable, acid, erosion, marble, chalk, limestone, slate, granite, sandstone, identification key, fossil, ichthyosaur, plesiosaur, ammonite, sediment, minerals, mould, cast Books and K	Ley Scientists	
			The Pebble in My Pocket		
			(Meredith Hooper) Stone Girl, Bone Girl (Laurence Anholt) The Street Bergeth Mu Friet		
			Ine Street Beneath My Feet (Charlotte Guillain & Yuval Zommer) Key Scientists: Mary Anning (Discovery of Fossils) Inge Lehmann		
			(Earth's Mantle) Kusala Rajendran (Earthquakes) FEBLE POCKET FORCE Circles		

		Porthcurnick (B)			Porthluney (A)
		-Recognise that they need			-Recognise that light
		light in order to see things			appears to travel in straight
		and that dark is the absence			lines.
		of light.			
					-llse the idea that light
					-Ose the laed that light
		-Notice that light is reflected			travels in straight lines to
		from surfaces.			explain that objects are seen
					because they give out or
		-Recognise that light from			reflect light into the eye.
		the sun can be dangerous			5 5 5
		and that there are ways to			-Explain that we see things
		protect their eyes			because light travels from
		protect titell eges.			light sources to our ques or
					light sources to our eyes of
		-Recognise that shadows are			from light sources to objects
		formed when the light from			and then to our eyes.
		a light source is blocked by			
		an opaque object.			-Use the idea that light
					travels in straight lines to
		-Find patterns in the way			explain why shadows have
		that the size of shadows			the same shape as the
		change			objects that cast them
		citalige.			objects that cast them.
	Vocabularu				
	vocubulury				
lht		light, white light, visible			light, light source, dark,
Lig		light, colour, spectrum,			reflect/reflective, mirror,
		refraction, energy, reflector,			shadow, block, absorb,
		reflect, predict, investigate,			direct/direction, transparent,
		reflective materials, reflect,			opaque, translucent,
		mirror, reflection, image			straight, bend, rainbow.
		concave, convex.			colours
		transparent, translucent			
		opaque, shadow			
		Books and K	eu Scientists		
		The Out Whe Wree Afreid of the Dal			attan from the Linksham
		(Jill Tomlinson)			Letters from the Lighthouse (Emma Carroll)
		The Dark (Lemony Snicket)			The Gruffalo's Child (Julia Danaldson)
					(outa Donalason)
		The Firework-Maker's Daughter			The King Who Banned the Dark
		(Philip Pullman)			(Emily Haworth-Booth)
		Key Scientists:			Key Scientists:
		Lewis Howard Latimer			Thomas Young
		(Lightbulb)			(Wave Theory of Light)
		Garrett Morgan			Ibn al-Haytham (Alhazen)
		(Traffic lights)			(Light and our Eyes)
		The Cowl			And Jack Sold
		Afraid			CHILD
					KING Whe fines of the
		annance o DB CASIN			
		Porthcurnick (A) and RECAP		Porthluney (B)	
		in B		-Explain that unsupported	
		-Compare how things move		objects fall towards the	
		on different surfaces		Farth because of the force	
		on aggerent surjuces.		of anavity acting between	
		Notice that some for		the Earth and the falling	
		nond contact between twee		abiast	
		need contact between two		object.	
		objects, but magnetic forces			
		can act at a distance.		-Identify the effects of air	
				resistance, water resistance	
		-Observe how magnets		and friction, that act	
		attract or repel each other		between moving surfaces.	
s		and attract some materials			
let		and not others.		-Recognise that some	
Jgr				mechanisms, including	
Ĕ		-Compare and aroun		levers, pulleus and gears	
р		together a variety of		allow a smaller force to	
B		evenudau materials on the		have a greater effect	
ces		hasis of whether they are		have a greater ejject.	
o		attracted to a manual dre			
L.		utiraciea to a magnet, and			
		iaentijy some magnetic			
		materials			
		materials.			
		materials.			
		materials. -Describe magnets as having			
		materials. -Describe magnets as having two poles.			
		materials. -Describe magnets as having two poles.			
		materials. -Describe magnets as having two poles. -Predict whether two			
		materials. -Describe magnets as having two poles. -Predict whether two magnets will attract or repel			
		materials. -Describe magnets as having two poles. -Predict whether two magnets will attract or repel each other, depending on			
		materials. -Describe magnets as having two poles. -Predict whether two magnets will attract or repel each other, depending on which poles are facing.			
		materials. -Describe magnets as having two poles. -Predict whether two magnets will attract or repel each other, depending on which poles are facing.			

	force, push, pull, theory, fair test, investigate, measure, gravity, contact, magnet, magnetism, fair test, magnetic, non-magnetic, attract, attraction, theory, repel, attraction, repulsion, poles, nearth couth		support, fall, Earth, gravity, air resistance, friction, balancing force, weight, Newtons, resistance force, variables, friction, moving surfaces, causal relationships, levers, pulleys, transfers, mechanisms	
	Books and K	ou Scientists		
	The Iron Man (Ted Hughes)		The Enormous Turnip	
	Mrs Armitage: Queen of the Road (Quentin Blake)		(Katie Daynes) Leonardo's Dream (Hans de Beer)	
	Mr Archimedes' Bath (Pamela Allen) Key Scientists:		<b>The Aerodynamics of Biscuits</b> (Clare Helen Welsh)	
	(Photosynthesis) Joseph Banks (Botanist)		Key Scientists: Galileo Galilei (Gravity and Acceleration)	
	George Washington Carver (Crop rotation)		Isaac Newton (Gravitation)	
		Porthcurnick (B) -Compare and group materials together, according to whether they are solids, liquids or gases.		
		-Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius		
		(°C). -Identify the part played by evaporation and condensation in the water cycle and associate the rate		
		temperature.		
	Vocal	bulary		
matter		solid, liquid, state, matter, particle, grain, category, classify, group, evidence, question, discuss, gas, state,		
tates of		particles, evidence, proof, explain, solidifying, freezing, melting, condensing, evaporating, particles		
S		thermometer, temperature, Celsius, Fahrenheit, degrees, evaporation, condensation,		
		precipitation, particle, state, liquid, gas, solid, ice, rain, clouds, vapour, particle		
	Books and K	ley Scientists		
		Charlie and the Chocolate Factory (Roald Dahl) Once Upon a Raindrop: The Story of		
		Water (James Carter) Sticks		



		Portholland (A) and RECAP in B -Identify how sounds are made, associating some of them with something vibrating. -Recognise that vibrations from sounds travel through a medium to the ear. -Find patterns between the pitch of a sound and features of the object that produced it. -Find patterns between the volume of a sound and the strength of the vibrations that produced it. -Recognise that sounds get fainter as the distance from the sound source increases.	
	\		
	vocat	bulary	
Sound		sound, listen, hear, ears, noise, loud, quiet, silent, vibrations, transmit, medium, air, water, solid, vibrations, source, sound waves, particles, travel, volume, loudness, amplitude, pitch, soundwave, frequency, sound waves, sign language, investigation, fair-test, factor (variable), prediction, results, resources, planning, muffle	
	Books and K	Ley Scientists	
		Horrid Henry Rocks (Francesca Simon) Moonbird (Joyce Dunbar) The Pied Piper of Hamelin (Natalia Vasquez)	
		Key Scientists: Aristotle (Sound Waves) Gailileo Galilei (Frequency and Pitch of Sound Waves) Alexander Graham Bell (Invented the Telephone)	
		re Providence Annual	

		Portholland (B) and RECAP in A -Identify common appliances that run on electricity. -Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. -Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. -Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. -Recognise some common conductors and insulators, and associate metals with being good conductors.		Porthluney (B) and RECAP in A -Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. -Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. -Use recognised symbols when representing a simple circuit in a diagram.
Ŀ.	Vocab	ulary		
Electricit		electricity, circuit, switch, battery, plug, mains, appliance, device, wire, crocodile clip, bulb, buzzer, connection, power, cell, electrocute, danger, flow, current, conductor, insulator		electricity, electrical circuit, complete circuit, circuit symbol, components, cell, battery, positive/negative, connect/connection, loose connection, wire, crocodile clip, bulb, bright/dim, switch, buzzer, volume, motor, fast(er)/slow(er), voltage, current, conductor, insulator, metal/non-metal, enquiry question, investigation, findings
	Books and Ke	Until I Met Dudleu		Goodnight Mister Tom
		Until I Met Dudley (Roger McGough) Oscar and the Bird: A Book about Electricity (Geoff Waring) Electrical Wizard: How Nikola Tesla Lit Up the World (Elizabeth Rusch) Key Scientists: Thomas Eddison (First Working Lightbulb) Joseph Swan (Incadesecant Light Bulb) Sir Charles Kao (Fibreoptics) DSCAR and the BIRD (Fibreoptics) Construction of the BIRD (Fibreoptics)		Goodnight Mister Tom (Michelle Magorian) Blackout (John Rocco) Hitler's Canary (Sandi Toksvig) Key Scientists: Alessandro Volta (Electrical Battery) Nicola Tesla (Alternating Currents) FITLER'S CALE
Earth and Space			Portholland (B) and RECAP in A -Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. -Describe the movement of the Moon relative to the Earth. -Describe the Sun, Earth and Moon as approximately spherical bodies. -Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	

	Vocabulary		
		Earth, planets, Sun, solar system, Moon, celestial body, sphere/spherical, rotate/rotation, spin, night & day, orbit, opinion/fact, , support/refute, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, 'dwarf' planet, orrery	
	Books and Key Scientists		
		The Skies Above My Eyes         (Charlotte Guillain & Yuval Zommer)         George's Secret Key to the Universe         (Lucy and Stephen Hawking with         Christophe Galfard)         The Way Back Home         (Oliver Jeffers)         Key Scientists:         Mae Jemison         (Astronaut)         Claudius Ptolemy and Nicolaus         Copernicus         (Heliocentric vs Geocentric Universe)         Neil de Grasse Tuson	
		(Declassification of Pluto)	Porthluney (A)
heritance			-Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. -Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
Evolution and in			-Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
	Vocabulary		
			offspring, characteristics, vary/variation, inherit/inheritance, environmental variation, suited/suitable, environment, adaptation, natural selection, fossils, theory, oninion, cladogram
	Books and Key Vocabulary		

			One Smart Fish
			(Christopher Wormell)
			(
			The Molliebird
			(Jules Pottle)
			(Jules Folle)
			0 5 4 7
			Our Family Tree
			(Lisa Westberg Peters)
			K
			Key Scientists:
			Charles Darwin and Alfred Russel
			Wallace
			(Theory of Evolution by Natural
			Selection)
			Jane Goodall
			(Chimpanzees)
			Maru Leakeu
			(Fossils)
			(103313)
			The second
			the mollebird
			Fish
			- Hards and
			Our
			Tree Parts
			The and the second second