



Key Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology	Can make observations of animas and explain why things occur and talk about changes (ELG).  Can look at different animals and their body parts. Talk about why they have them e.g. beak, wings, leg.  Can talk about the differences between animals	Can identify and name some common animals.  Can name common animals which are herbivores, carnivores and omnivores.  Can describe and compare the structure of animals including pets.  Can identify, name, draw and label basic parts of the human body and the senses.  Can identify and name a variety of common wild and garden plants, including deciduous and evergreen.	Know 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, air and food.)  Describe the importance of exercise for humans, eating the right amount of the food groups and hygiene.  Can explore & compare the difference between the things that are living, dead and	Can identify that animals including humans need the right types and amount of nutrition and they cannot make their own food; they get their nutrition from the food they eat.  Can identify that humans and some animals have skeletons and muscles for support, movement and protection.	Can describe the functions of the basic parts of the human digestive system.  Can identify the different types of human teeth and their basic functions.  Can construct and interpret a variety of food chains, indentifying producers, consumers, predators and prey.  Can recognise that living things can be grouped in a variety of ways.  Can interpret and construct a range of classification keys to help group, indentify and name a variety	Can describe the changes in humans as they develop into old age.  Can describe the differences in life cycles of a mammal, amphibian, insect and a bird.  Can describe the life processes of reproduction in some plants and animals.	Can name and identify the main part of the human circulatory system and describe the functions of the heart, blood vessels and blood.  Can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.  Can describe the ways in which nutrients and water are transported around the body within animals including humans.  Can recognise that living things





	Can identify and	things that have	of living things in	have changed
	describe the basic	never been alive.	their local and wider	over time and
	structure of a		environment.	that fossils
	variety of common	Can identify that		provide
	flowering plants, including trees.	most living things	Can identify natural	information about
	merdanig trees.	live in a habitat	and human changes	living things that
		which they are	on the environment	inhabited the
		suited & describe	which can pose	world millions of
		how different	dangers to living	years ago.
		habitats provide	things and habitats.	
		basic needs of		Can recognise
Can make		different kinds of		that living things
observations of		animals and plants		produce offspring
plants and		& how they depend		of the same kind
explain Why		on each other.		but normally vary
things occur and				and are different
talk about		Can name &		to their parents
changes (ELG).		identify a variety of		
Can examine		plants and animals		Can identify how
		in their habitats		plants and
change over		including micro-		animals are suited
time, for		habitats.		to their
example,		Complement		environment and
growing plants.		Can observe and describe how seeds		that adaptation
Talk about the		and bulbs grow into		may lead to
parts and what		mature		evolution.
happens to		plants.		
them. Use				
language e.g.				





leaves, roots stem, petal.		Can find and describe how plants need water, light and a suitable temperature to grow and stay healthy.				
Chemistry  Can talk about similarities and differences in relation to places, object materials and living things.  Can sort materials using criteria such soft, hard, flexible, plas wood, metal	between the object and the material from which it is made.  Can name and identify a variety of everyday materials including wood, as plastic, glass, metal water and rock.  tic,	Can identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock paper and cardboard for particular uses.  Can find out how the shapes of solid objects made from some materials can be changed by squashing, bending,	Can compare and group together different kinds of rock on the basis of their appearance and simple physical properties.  Can describe in simple terms how fossils are formed, when things that have lived are trapped within rocks.  Can recognise that soils are made from rocks and organic matter.	Can compare and group materials together, according to whether they are solids, liquids or gases.  Can observe that some materials change state when they are heated or cooled and measure or research temperatures in degrees Celsius which this happens.	Can compare and group together materials on the basis of their properties and their hardness and solubility, transparency, conductivity (thermal/electric al) and response the magnets.  Can name some materials that will dissolve in water and form a solution and describe how to	N/A





		Can compare and	twisting and		Can identify the	recover a	
		group together a	stretching.		part played by	substance from a	
		variety of everyday			evaporation and	solution.	
		materials on the basis of their basic physical properties.			condensation in the water cycle, and associate the rate of evaporation with temperature.	Can use knowledge of solids, liquids and gases to decide how mixtures might be	
						separated including through filtering, sieving and evaporating.	
						Can give reasons based on comparative or fair tests for the	
						particular uses of everyday materials including metal,	
						wood and plastic.	
Physics Action to	Can discuss features of the environment	Can observe changes across the four seasons.	Can observe changes across the four seasons.	Can recognise that they need light in order to see things	Can identify how sounds are made associating some of	Can describe the movement of the Earth and other	Can use the idea that light travels in straight lines to
develop in	and how	Tour seasons.	Tour seasons.		them with	Laren and other	explain that objects





Must work with EYFS staff to or construct. Cath the see in the www.	nay vary from cone another acan talk about s	Can name and describe weather associated with the seasons and how day length varies	Can name and describe affects on plants/trees during each of the four seasons.	and that dark is the absence of light.  Can notice that light is reflected from surfaces.  Can recognise that light reflected from the sun can be dangerous and that there are ways to protect eyes.  Can recognise that shadows are formed when the light is blocked by a solid object.  Can find patterns in the way that shadows change.  Can compare how things move on different surfaces.	something vibrating.  Can recognise that vibrations from sounds travel through a medium to the ear.  Can find patterns between the pitch of a sound and features of the object that produced it.  Can recognise that sounds get fainter as the distance from the sound sources increases.  Can identify some appliances that run on electricity.  Can construct a simple series circuit by identifying and	planets, relative to the sun.  Can describe the movement of the Moon relative to the Earth.  Can describe the Moon, Earth and Sun as approximately spherical bodies.  Can use the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.  Can explain the unsupported objects fall towards the Earth because of the force of gravity	are seen because they give out or reflect light into the eye.  Can explain that we can see things because light travels from light sources to our eyes or from light sources to an object then to our eyes.  Can use the idea that light travels in straight lines to explain that shows have the same shape as objects that have cast them.  Can associate the brightness of a lamp or the volume of a buzzer with the number and voltage
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Can notice that some	naming its main	acting between	of the cells used in
forces need contact	parts including	the Earth and the	the circuit.
between two objects,	cells, wires, bulbs,	object.	
but that magnetic	switches and		Can compare and
forces can act at a	buzzers.	Can identify the	give reasons for
distance.		effects of air	variations in how
	Can identify	resistance, water	components
Can observe how	whether or not a	resistance and	function including
magnets attract or	lamp will light in a	friction that act	the brightness of
repel each other and	simple series circuit	between moving	bulbs, the loudness
attract some	based on whether	surfaces.	of buzzers and the
materials and not	or not the lamp is		on/off position of
others; describe	part of a complete	Can recognise	switches.
magnets as having	loop with a battery.	that some	
two poles.	,	mechanisms	Can used
two poles.	Can recognise that	including gears,	recognised symbols
Can predict whether	a switch opens and	pulleys and levers	when representing
two magnets will	closes a circuit and	allow a smaller	simple circuits in a
attract or repel each	associate this with	force to have a	diagram.
other depending on	whether or not the	greater effect.	
which way their	lamp is lights in a	3	
poles are facing.	simple series		
pores are rading.	circuit.		
Can compare and	circuit.		
group together a	Can recognise some		
variety of everyday	conductors and		
material on the basis	insulators and		
of whether they are	associate metals		
attracted to a	associate iniciais		
attracted to a			

