Class 3 Years	Autumn Term	Spring Term	Summer Term	
4, 5 and 6				
Cycle 1	Forces	Evolution and Inheritance	Living Things and Their Habitats	
		Children and a size that his in this cash and a second	Children are an in the thirty at his are the	
	Children explain that unsupported objects fall towards the	Children recognise that living things have changed over	Children recognise that living things can be	
	Earth because of the force of gravity acting between the	time and that fossils provide information about living	grouped in a variety of ways. They explore and use	
	Earth and the falling object. Children identify the effects of	things that inhabited the Earth millions of years ago. They	classification keys to help group, identify and	
	air resistance, water resistance and friction, that act	recognise that living things produce offspring of the same	name a variety of living things in their local and	
	between moving surfaces. Children recognise that some	kind, but normally offspring vary and are not identical to	wider environment. Children recognise that	
	mechanisms, including levers, pulleys and gears, allow a	their parents. Children identify how animals and plants are	environments can change and that this can	
	smaller force to have a greater effect.	adapted to suit their environment in different ways and	sometimes pose dangers to living things. Children	
		that adaptation may lead to evolution.	describe the differences in the life cycles of a	
	Earth and Space		mammal, an amphibian, an insect and a bird. They	
			describe the life process of reproduction in some	
	Children describe the movement of the Earth, and other		plants and animals. Children describe how living	
	planets, relative to the Sun in the solar system. They		things are classified into broad groups according	
	describe the movement of the Moon relative to the Earth.		to common observable characteristics and based	
	Children describe the Sun, Earth and Moon as approximately		on similarities and differences, including	
	spherical bodies. Children use the idea of the Earth's		microorganisms, plants and animals. Children give	
	rotation to explain day and night and the apparent		reasons for classifying plants and animals based	
	movement of the sun across the sky.		on specific characteristics.	
Cycle 2	Electricity	States of Matter	Animals including Humans	
	Children identify common appliances that run on electricity.	Children compare and group materials together, according	Children describe the simple functions of the basic	
	They construct a simple series electrical circuit, identifying	to whether they are solids, liquids or gases. They observe	parts of the digestive system in humans. Children	
	and naming its basic parts, including cells, wires, bulbs,	that some materials change state when they are heated or	identify the different types of teeth in humans and	
	switches and buzzers. They identify whether or not a lamp	cooled, and measure or research the temperature at	their simple functions. They also construct and	
	will light in a simple series circuit, based on whether or not	which this happens in degrees Celsius (°C). Children	interpret a variety of food chains, identifying	
	the lamp is part of a complete loop with a battery. They	identify the part played by evaporation and condensation	producers, predators and prey. Children describe	
	recognise that a switch opens and closes a circuit and	, , ,,,,,	the changes as humans develop to old age. Pupils	
	associate this with whether or not a lamp lights in a simple		should draw a timeline to indicate stages in the	
	associate this with whether of flot a famp lights in a simple		Should draw a timeline to maleute stages in the	

	series circuit. Children recognise some common conductors and insulators, and associate metals with being good conductors, associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Children 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. Children use recognised symbols when representing a simple circuit in a diagram.	in the water cycle and associate the rate of evaporation with temperature.	growth and development of humans. They should learn about the changes experienced in puberty. Pupils could work scientifically by researching the gestation periods of other animals and comparing them with humans; by finding out and recording the length and mass of a baby as it grows (The various puberty changes are also covered through the Relationships and Sex Education (RSE) topic, Growing and Changing)
Cycle 3	Properties and changes of materials	Sound	Light
	Children compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. They know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Children use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating They give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. Children demonstrate that dissolving, mixing and changes of state are reversible changes. They explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	Children identify how sounds are made, associating some of them with something vibrating. They recognise that vibrations from sounds travel through a medium to the ear. They find patterns between the pitch of a sound and features of the object that produced it. Children find patterns between the volume of a sound and the strength of the vibrations that produced it. Children recognise that sounds get fainter as the distance from the sound source increases.	Children recognise that light appears to travel in straight lines. They use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Children explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Children use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.