



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Living Things and their Habitats.	Animals (Pets) Identifying and classifying Researching using secondary sources Make direct comparisons		Living things and their habitats 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 Identify and name a variety of plants and animals in their habitats, including micro- habitats 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 Things 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	Living Things 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	Living Things 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
Animals, including humans	Humans Classification Identify, sort and group. Life cycles (caterpillar) Observing over time Show curiosity and ask questions Record their observations by drawing, taking photographs, using sorting rings or boxes and on simple tick sheets Animals Classification Researching using secondary sources identify, sort and group.	Animals 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. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Animals (including humans) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Animals (including humans) 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 air). Living things and habitats 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 Animals (including humans) Life cycles (tadpoles) 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 air).	Animals, including humans Identify that animals, including humans, need the right types and amounts of nutrition and they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Animals, including humans 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 Construct and interpret a variety of food chains, identifying producers, predators and prey	Animals, including humans Describe the changes as humans develop to old age	Animals, including humans 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 lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animas including humans

		T	T		T	1	
Materials	Materials	Everyday Materials	Uses of everyday materials			Materials	
	Comparative testing	Distinguish between an object	Identify and compare the			compare and group together	
	Observing over time	and the material from which it	suitability of a variety of			everyday materials on the basis	
	Make direct	is made.	everyday materials, including			of their properties, including their	
	comparisons	Identify and name a variety of	wood, metal, plastic, glass,			hardness, solubility,	
	Identify, sort and group	1	brick, rock, paper and			transparency, conductivity	
	racitary, sore and group	everyday materials, including	cardboard for particular uses.			(electrical and thermal), and	
		wood, plastic, glass, metal,				response to magnets	
		water, and rock.	Find out how the shapes of			know that some materials will	
		Describe the simple physical	solid objects made from some			dissolve in liquid to form a	
		1	materials can be changed by			solution, and describe how to	
		properties of a variety of	squashing, bending, twisting			recover a substance from a	
		everyday materials.	and stretching.			solution	
		Compare and group together				use knowledge of solids, liquids	
		a variety of everyday materials				and gases to decide how mixtures	
		on the basis of their simple				might be separated, including	
		physical properties.				through filtering, sieving and	
		priysical properties.				evaporating	
						give reasons, based on evidence	
						from comparative and fair tests,	
						for the particular uses of	
						everyday materials, including	
						metals, wood and plastic	
						demonstrate that dissolving,	
						mixing and changes of state are	
						reversible changes	
						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	
				Forces and Magnets		Forces	
Forces				Forces and Magnets		explain that unsupported objects	
				Compare how things move on		fall towards the Earth because of	
				different surfaces		·	
				Notice that some forces need		the force of gravity acting	
				contact between two objects,		between the Earth and the falling	
				but magnetic forces can act at		object	
				a distance		identify the effects of air	
				Observe how magnets attract		resistance, water resistance and	
				_		friction, that act between moving	
				or repel each other and attract		surfaces	
				some materials and not others		recognise that some mechanisms,	
				Compare and group together		including levers, pulleys and	
				a variety of everyday materials		gears, allow a smaller force to	
				on the basis of whether they		have a greater effect	
				are attracted to a magnet,			
				and identify some magnetic			
				materials			
				1			
				Describe magnets as having			
				two poles			
				Predict whether two magnets			
				will attract or repel each			
				other, depending on which			
				poles are facing			
		I.	l	I posico are judning	l		

Sound					Sound 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	
Plants	Planting bulbs Performing simple tests Plants Classification Pattern seeking Identify, sort and group	Plants Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees.	Plants Animals (including humans) Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers Explore the requirements for plant 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.		
Light				Light Recognise that they need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect their eyes Recognise that shadows are formed when the light from a light source is blocked by an opaque object Find patterns in the way that the size of shadows change		Light Recognise that light appears to travel in straight lines 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 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 Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
Electricity					Electricity Identify common appliances that run on electricity	Electricity associate the brightness of a lamp or the volume of a buzzer with the

				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	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
Evolution and inheritance					Evolution and inheritance 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 Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
Seasonal changes	Seasonal Changes (Winter/ spring) Classification Observing over time Researching using secondary sources Record their observations by drawing, taking photographs Seasonal changes Use their observations to help them to answer their questions	Seasonal Changes Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies.			

States of Matter	Freezing and melting Make observations using their senses and simple equipment Classification Observing over time Researching using secondary sources Record their observations by drawing, taking photographs		States of Matter 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 Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature		
Earth and Space	Space Pattern seeking Use their observations to help them to answer their questions			Earth and Space 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	
Soils and rocks		Soils and Rocks 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 thing that have lived are trapped within rock Recognise that soils are made from rocks and organic matte	5		
Working Scientifically		Working Scientifically Be curious and ask questions Use different ways to record information found Begin to make predictions based on what they know. Start to be curious about relationships.	Working Scientifically Be curious and ask questions Use different ways to record information found Begin to make predictions based on what they know. Start to be curious about relationships.	Working Scientifically Be curious and ask questions Explore scientific research Use keys and systems to group information recorded Talk about predictions and what happens and why. Investigate relationships	Working Scientifically Be curious and ask questions Explore scientific research Use keys and systems to group information recorded Talk about predictions and what happens and why. Investigate relationships