



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including humans	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). Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	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). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	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 some other animals have skeletons and muscles for support, protection and movement.	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.	Describe the changes as humans develop to old age.	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 animals, including humans.
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 microhabitats. 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.		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.	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.	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





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	Identify and name a variety of	Observe and describe how seeds	Identify and describe the functions		
	common and wild and garden	and bulbs into mature plants.	of different parts of flowering		
	plants, including deciduous and		plants: roots, stem/trunk, leaves		
	evergreen trees.	Find out and describe how plants	and flowers.		
		need water, light and a suitable			
	Identify and describe the basic	temperature to grow and stay	Explore the requirements of		
	structure of a variety of common	healthy.	plants for life and growth (air,		
Plants	flowering plants, including trees.		light, water, nutrients from soil,		
ar			and room to grow) and how they		
P			vary from plant to plant		
			Investigate the way in which water		
			is transported within plants.		
			Evelope the next that flavore alour		
			Explore the part that flowers play		
			in the life cycle of flowering plants, including pollination, seed		
			formation and seed dispersal.		
					Recognise that living things have
c D					changed over time and that fossils
l ğ					provide information about living
ar					things that inhabited the Earth
ij					millions of years ago.
Inheritance					
Ч					Recognise that living things
and					produce offspring of the same
ar					kind, but normally offspring vary
					and are not identical to their
Evolution					parents Identify how animals and
l n					plants are adapted to suit their
2					environment in different ways and
Ш					that adaptation may lead to
					evolution.





<u>The Stonebridge School</u> <u>Science Progression Map</u>

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Materials	Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.		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. Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and 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	
Seasonal	Observe changes across the 4 seasons. Observe and describe weather			bicarbonate of soda.	
Se	associated with the seasons and how day length varies.				
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 things that have lived are trapped within rock Recognise that soils are made from rocks and organic matter.		





State of Matters			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 of evaporation with temperature.		
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.	
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.			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.





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	Compare how things move on		Explain that unsupported objects	
	different surfaces.		fall towards the Earth because of	
			the force of gravity acting	
	Notice that some forces need		between the Earth and the falling	
	contact between 2 objects, but		object.	
	magnetic forces can act at a			
	distance.		Identify the effects of air	
			resistance, water resistance and	
	Observe how magnets attract or		friction, that act between moving	
	repel each other and attract some		surfaces.	
	materials and not others.			
S O			Recognise that some	
Ŭ	Compare and group together a		mechanisms including levers,	
Forces	variety of everyday materials on		pulleys and gears allow a smaller	
	the basis of whether they are		force to have a greater effect.	
	attracted to a magnet, and identify		6	
	some magnetic materials.			
	g			
	Describe magnets as having 2			
	poles.			
	Predict whether 2 magnets will			
	attract or repel each other,			
	depending on which poles are			
	facing.			
		Identify common appliances that		Associate the brightness of a
		run on electricity.		lamp or the volume of a buzzer
		,		with the number and voltage of
		Construct a simple series		cells used in the circuit.
		electrical circuit, identifying and		
		naming its basic parts, including		Compare and give reasons for
		cells, wires, bulbs, switches and		variations in how components
		buzzers.		function, including the brightness
		0.000		of bulbs, the loudness of buzzers
		Identify whether or not a lamp will		and the on/off position of
Ę.		light in a simple series circuit,		switches.
. <u></u>		based on whether or not the lamp		
Electricity		is part of a complete loop with a		Use recognised symbols when
6		battery.		representing a simple circuit in a
ш		Sectory.		diagram.
		Recognise that a switch opens		alagram
		and closes a circuit and associate		
		this with whether or not a lamp		
		lights in a simple series circuit.		
		ngine in a oimpie sense snoult.		
		Recognise some common		
		conductors and insulators, and		
		associate metals with being good		
		conductor.		
L				





	Identify how sounds are made, associating some of them with something vibrating.
	Recognise that vibrations from sounds travel through a medium to the ear.
Sound	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.