	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	The Skeleton and	Seasonal Change	Everyday Materials		Animals, including	Plants and Trees
	 Animals Describe and compare the structure of a variety of animals (birds, fish, amphibians, reptiles, mammals and invertebrates, and 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. 	 Observe and describe weather associated with the seasons Observe and describe how day length varies. Observe changes across the four seasons 	 Distinguish between a material from which i Identify and name a waterials, including waterial, water and rock Describe the simple pariety of everyday materials of everyday materials of simple physical properations. 	t is made. variety of everyday vood, plastic, glass, k. hysical properties of a vaterials. ogether a variety of the basis of their	 humans Identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. • 	 Identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen. Identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers.
2	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	 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. 	metal, plastic, glass, br cardboard for particula	he suitability of a terials, including wood, ick, rock, paper and r uses. es of solid objects made an be changed by	 animals, including land air) Notice that animals which grow into ad Describe the important animals and animals which grow into additional animals and air) 	describe the basic needs of humans, for survival (water, food s, including humans, have offspring

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	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.				
3	Light	Forces and Magnets	Animals, including	Plants	Rocks
	 Notice that light is reflected from surfaces Find patterns that determine the size of shadows 	 Notice that some forces need contact between two objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some materials and not others Compare and group together a variety of 	Humans 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 animals	 Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers. Explore the requirements of plant 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 	 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. Recognize that soils are made from rocks and organic matter.

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	everyday materials on	have skeletons and	pollination, seed fo	ormation and seed	
	the basis of whether	muscles for support,	dispersal.		
	they are attracted to a	protection and			
	magnet, and identify	movement.			
	some magnetic				
	materials				
	Describe magnets as				
	having two poles				
	Predict whether two				
	magnets will attract or				
	repel each other,				
	depending on which				
	poles are facing				ļ
4	Electricity with Insulators and Conductors	Living things and their	Animals, including	Sound	States of Matter
	 Identify common appliances that run on electricity 	habitats	humans	Identify how	 Compare and group materials
	Construct a simple series electrical circuit,	Recognise that living	Describe the	sounds are made,	together, according to
	identifying and naming its basic parts, including	things can be	simple functions	associating some	whether they are solids,
	cells, wires, bulbs, switches and buzzers	grouped in a variety	of the basic parts	of them with	liquids or gases
	 Identify whether or not a lamp will light in a simple 	of ways.	of the digestive	something	Observe that some materials
	series circuit, based on whether or not the lamp is	Explore and use	system in	vibrating.	change state when they are
	part of a complete loop with a battery	classification keys to	humans	Find patterns	heated or cooled, and
	 Recognize that a switch opens and closes a circuit 	help group, identify	Identify the	between the	measure or research the
	and associate this with whether or not a lamp lights	and name of living	different types of	pitch of a sound	temperature at which this
	in a simple series circuit	things in their local	teeth in humans	and features of	happens in degrees Celsius
	Recognize some common conductors and	and wider	and their simple	the object that	(°C)
	insulators, and associate metals with being good	environments.	functions.	produced it.	 Identify the part played by
	conductors	Recognise that	Construct and	Identify patterns	evaporation and
	conductors	environments can	interpret a	between the	condensation in the water
			•	volume of a	
		change and that this	variety of food		cycle and associate the rate
		can sometimes pose	chains,	sound and the	of evaporation with
		dangers to living	identifying	strength of the	temperature.
		things.	producers,	vibrations that	
				produced it	

5	Living things and their habitats, including plants 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.	Properties and Changes of Materials 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	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.	predators and prey Forces • explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object • identify the effects of air resistance, water resistance and friction, that act between moving surfaces • recognise that some mechanisms, including levers,	Animals, including humans • Describe the changes as humans develop from birth to old age
		solutionUse knowledge of solids, liquids and gases	and the apparent movement of the sun	 recognise that some mechanisms, 	

		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.				
6	 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 	 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 	Living things and their habitats • Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.	• recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago	Scientists and Inventors • an in depth study into various scientists and how they have influenced our lives • a comparison between a modern day scientist and a scientist from the past	 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

•	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.	the on/off position of switches use recognised symbols when representing a simple circuit in a diagram.	•	Give reasons for classifying plants and animals based on specific characteristics.	•	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	transported within animals, including humans.