	SCIENCE UNIT END POINTS
	END POINTS - PLANTS
EYFS (ELG)	 Explore the natural world around them, making observations and drawing pictures of animals and plants;
Year 1	 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
Year 2	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
Year 3	 identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
	 explore the requirements of plants for 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
Year 4	
Year 5	
Year 6	

	SCIENCE UNIT END POINTS
	END POINTS – ANIMALS, INCLUDING HUMANS
EYFS (ELG)	 Explore the natural world around them, making observations and drawing pictures of animals and plants;
Year 1	 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
Year 2	 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
Year 3	 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
Year 4	 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
Year 5	 describe the changes as humans develop to old age
Year 6	• 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

	SCIENCE UNIT END POINTS
	END POINTS – MATERIALS
EYFS	
Year 1	 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
Year 2	 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
Year 3 (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
Year 4 Solids, Liquids and	 compare and group materials together, according to whether they are solids, liquids or gases
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
Year 5 Materials and Separation	 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 bicarbonate of soda
Year 6	

	SCIENCE UNIT END POINTS
	END POINTS – LIVING THINGS AND THEIR HABITATS
EYFS (ELG)	 Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class;
Year 1	•
Year 2	 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.
Year 3	•
Year 4	 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
Year 5	 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
Year 6	 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

SCIENCE UNIT END POINTS

END POINTS – FORCES

Year 1	•
Year 2	
Year 3	 compare how things move on different surfaces
	 notice that some forces need contact between 2 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 everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
	 describe magnets as having 2 poles
	 predict whether 2 magnets will attract or repel each other, depending on which poles are facing
Year 4	•
Year 5	 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, pulleys and gears allow a smaller force to have a greater effect
Year 6	•

SCIENCE UNIT END POINTS	
	END POINTS – SEASONAL CHANGE
EYFS (ELG)	 Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.
Year 1	 observe changes across the 4 seasons observe and describe weather associated with the seasons and how day length varies
Year 2	•
Year 3	•
Year 4	•
Year 5	•
Year 6	•

SCIENCE UNIT END POINTS

END POINTS – LIGHT AND SOUND	
EYFS	
Year 1	•
Year 2	•
Year 3	 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
Year 4	 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
Year 5	•
Year 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 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

SCIENCE UNIT END POINTS

END POINTS – ELECTRICITY

EYFS	
Year 1	•
Year 2	•
Year 3	•
Year 4	 identify common appliances that run on electricity
	 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
Year 5	•
Year 6	 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 the on/off position of switches
	 use recognised symbols when representing a simple circuit in a diagram

	SCIENCE UNIT END POINTS
	END POINTS – EARTH AND SPACE
EYFS	
Year 1	•
Year 2	•
Year 3	•
Year 4	•
Year 5	 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
Year 6	•

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SCIENCE UNIT END POINTS

END POINTS – EVOLUTION AND INHERITANCE	
EYFS	
Year 1	•
Year 2	•
Year 3	•
Year 4	•
Year 5	•
Year 6	 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