

Science Curriculum Map



Nursery	Animals, Inc Humans: look at life cycles of animals and humans. Taking care of ourselves.	Living things and their habitats: explore the natural environment, and showing respect.	Plants: plant and take care of seeds, and begin to look at the life cycle of the plant.	Materials, including changing materials: explore a range of materials using their senses. Joining and combining materials.	Light: exploring light sources alongside different materials.	Sound: listen to and make different sounds in different environments.				
Reception	Animals, Inc Humans: name animals that live in different habitats. Personal hygiene.	Living things and their habitats: explore plants and animals in different environments.	Plants: name and describe plants and recognise familiar plants.	Seasonal Changes: observe the effects of changing seasons on the environment.	Materials, including changing materials: explore a range of materials and compare changes over time.	Electricity: identify electrical devices and use battery powered devices.	Light: explore shadows through different materials.	Forces: explore wind and how objects move in water.	Sound: listen and identify sound sources and make sounds.	Earth and Space: learn about the solar system through stories.
Year 1	Animals, Inc 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.	Seasonal Changes: observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies	Everyday 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 simple properties of everyday materials and group according to their properties.			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.	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			
			Revision: Seasonal Changes					Revision: Seasonal Changes		
Year 2	Introduce Plants: Observe and describe how bulb grow/find out what bulbs and plants need to grow and stay healthy (bulb planting)	Animals, including humans: Know that animals have offspring that grow into adults/discover the basic needs of humans for survival. Describe the importance of exercise, healthy eating and hygiene	Living things and their habitats: explore and compare living, dead and things identify that have never lived. Identify habitats and simple adaptation/ identify and name plants and animals in their habitats. Describe how food is obtained from plants and animals – simple food chains			Plants: Observe and describe how seeds grow/find out what seeds and plants need to grow and stay healthy (seed planting)	Use of everyday materials: Identify suitability of everyday materials / explore physical properties of solid objects.			
			Plant Observations							
Year 3	Animals, including humans: Identify that humans and some animals have skeletons and muscles. Nutrition comes from the food they eat, and the different nutritional values of different foods.	Forces and magnets: Compare how things move on different surfaces, group everyday materials depending on they are magnetic or not, make predictions on whether magnetic attract or repel		Rocks: Exploring different forms of rocks, compare and group rock by their physical properties, look at how fossils are formed	Plants: Functions of a plant, requirements for life and life cycle of a plant. Explore the part of the flower in the life cycle and the way water is transported.	Light: Recognise light and dark/ recognise the sun as a light source/ know how shadows are made, and find patterns in way shadows change				
Year 4	Living things and their habitats: Recognise that living things can be grouped/ explore and use classification keys/recognise how changes in environment can pose dangers	Animals, including humans: Construct and interpret food chains using producers, predators and prey. Describe the basic functions of the digestive system/identify different types of teeth and their functions	States of matter: Compare and group materials/ observe changes of state and research temperature/identify evaporation and condensation as part of the water cycle		Sound: Identify how sounds are made/ recognise that vibrations are used/ find patterns in pitch/volume/distance from sound source	common appliances that use electricity/construct simple series circuits/recognise the function of a switch/recognise some common conductors and insulators				
Year 5	Properties and changes of materials: Demonstrate changes of state that are reversible changes/explain how irreversible changes sometimes result in a new material. Compare and group everyday materials according to their properties/know that some materials dissolve/describe how materials can be separated		Forces: Explain how gravity acts on objects/ identify the effects or air resistance/explain the use of gears, pulleys and levers	Earth and Space: describe movement of Earth relative to sun/describe movement of Moon relative to Earth/explain day and night	Living Things and their habitats: Describe differences in life cycles and different classifications/describe the life cycle of reproduction of some plants and animals	Animals, including humans: Describe the changes as humans develop – link to SRE				
Year 6	Electricity: associate the brightness of a bulb with the number of cells used/give reasons for variation in how components function/use recognised symbols to represent a circuit.	Living things and their habitats: Describe how living things are classified into groups/give reasons for classifying plants and animals based on specific characteristics.	Animals, including humans: recognise the impact of diet, drugs and lifestyle/describe ways in which nutrients and water are transported within animals including humans. Identify and name the main parts of the human circulatory system and describe the functions.	Light: recognise that light travel in a straight line/ explain how we see things/ explain how shadows are formed.		Evolution and inheritance: Recognise that living things have changed over time and that fossils give evidence/recognise that living things produce offspring that can vary/identify how animals and plants adapt to their environment.				