

Science Progression of subject knowledge								
Reception	Year 1	Ye	Years 2 Year 3		Year 4			
	Pla	nts. Animals (including hu	mans) and Livi	ng things and their habitats				
Understanding the World: The World Children know about similarities and differences in relation to places and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.			als in their habitats,		Living things and their habitats: explore and use classification keys to help group, identify and name a variety of living thing in their local and wider environment,			
	Plants: identify and describe the a variety of common flowering Plants: identify and name the representation of the property of the four seasons. Plants: identify and name the representation of the property of the four seasons.	Plants: observe and describe bulbs grow into mature plan Int) changes across Plants: find out and describe water, light and warmth to g	how plants need row and stat healthy each open open open open open open open open	Plants: know the ways in which water is transported between plants.	Living things and their habitats: recognise that environments can change and sometimes pose danger to living things.			
	Animals, including humans: ide variety of common animals, ide variety of common an	Animals, including humans: including humans, have offs	als in their habitats, know that animals, oring which grow into the parts of the		Living things and their habitats: explore and use classification keys to help group, identify and name a variety of living thing in their local and wider environment,			
	Animals, including humans: ide variety of common animals the herbivores and omnivores		ts: describe how m plants and other simple food chain, different sources of different sources of many sources of different sources of d	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 their nutrition from what they eat	Animals, including humans: construct and interpret a variety of food chains, identifying producer, predators and prey, Living things and their habitats: recognise that environments can change and sometimes pose danger to living things. Animals, including humans: describe the simple functions of the parts of the digestive system in humans			
	Animals, including humans: describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Animals, including humans: identify, name, draw and label the basic part of the human body and say which part of the body is associated with each sense.	the basic needs of animals, is survival (water, food and air animals, including humans: including humans, have offs adults.	ncluding humans, for applying the pring which grow into applying the pring which grow into applying the pring which grow into applying the principle of the pri	Animals, including humans: know the importance of a nutritious, balanced diet. Animals, including humans: identify that humans, and some other animals, have skeletons and muscles for support, protection and movement Light: recognise that they need light in order to see things and that dark is the absence of light and recognise that light from the sun can be dangerous and that there are ways to protect their eyes	Animals, including humans: identify the different types of teeth in humans and identify their functions. Sound: recognise that vibrations from sounds travel through a medium to the ear			

	Everyday Materials, Uses o	f everyday materials, Forces an	d Magnets, Rocks, and States o	f matter
Reception	Year 1	Years 2	Year 3	Year 4
Understanding the World: The World Children know about similarities and differences in relation to objects and materials	Everyday Materials: distinguish between an object and the material from which it is made Everyday Materials: identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	Uses of everyday materials: identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Years 2	Rocks: recognise that soils are made from rocks and organic matter. Year 3	
They talk about the features of their own immediate environment and now environments might vary from one another. They explain why some things occur and talk about changes.	Everyday Materials: describe the simple physical properties of a variety of everyday materials Everyday Materials: compare and group together a variety of everyday materials on the basis of their simple physical properties.	Uses of everyday materials: find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Rocks: compare and group together different kinds of rocks on the basis of their appearance and simple physical properties Rocks: describe in simple terms how fossils are formed when things that have lived are trapped within rock. Forces and Magnets: compare how things move on different surfaces Forces and Magnets: 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 Forces and Magnets: notice that some forces need contact between two objects, but magnetic forces can act at a distance Forces and Magnets: observe how magnets attract or repel each other and attract some materials and not others Forces and Magnets: describe magnets as having two poles Forces and Magnets: predict whether two magnets will attract or repel each other, depending on which poles are	States of matter: compare and group materials together, according to whether they are solids, liquids or gases States of matter: observe that some materials change state when they are heated or cooled, and measure or researce the temperature at which this happens in degrees Celsius (°C) States of matter: identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
		Light and Sound	facing.	
Reception	Year 1	Light and Sound Years 2	Year 3	Year 4
Understanding the World: The World Children know about similarities and differences in relation to objects and materials They talk about the features of their own immediate environment and now environments might vary from one another.	Everyday Materials: identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Everyday Materials: describe the simple physical properties of a variety of everyday materials Everyday Materials: compare and group together a variety of everyday materials on the basis of their simple physical properties.	Uses of everyday materials: identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses	Light: recognise that they need light in order to see things and that dark is the absence of light Light: notice that light is reflected from surfaces Light: recognise that light from the sun can be dangerous and that there are ways to protect their eyes Light: recognise that shadows are formed when the light from a light source is blocked by an opaque object	
They explain why some things occur and talk about changes.	Animals, including humans: identify, name, draw and label the basic part of the human body and say which part of the body is associated with each sense		Light: find patterns in the way that the size of shadows change.	Sound: identify how sounds are made, associating some of them with something vibrating Sound: 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 Sound: find patterns between the volume of a sound and the strength of the vibrations that produced it

Sound: recognise that sounds get fainter as the distance

from the sound source increases.

Electricity							
Reception	Year 1	Years 2	Year 3	Year 4			
Understanding the World: The World Children know about similarities and differences in relation to objects and materials They talk about the features of their own immediate environment and how environments might vary from one another. They explain why some things occur and talk about changes.	Everyday Materials: identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Everyday Materials: describe the simple physical properties of a variety of everyday materials Everyday Materials: compare and group together a variety of everyday materials on the basis of their simple physical properties.	Uses of everyday materials: identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses		Electricity: identify common appliances that run on electricity Electricity: construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Electricity: 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 Electricity: recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit Electricity: recognise some common conductors and insulators, and associate metals with being good conductors.			