

	Who do you think you are? Personal, Social and Emotional Development (PSED) - Humans	Our Environment Understanding the World (UW) – Animals excluding humans and Light	Who is your hero? Understanding the World (UW) - Forces	Journeys Understanding the World (UW) – Forces and sound	Down on the Farm Understanding the World (UW) – Living things and their habitats	Where would you like to go on holiday? Understanding the World (UW) – Materials
R	Personal hygiene: - Manage their own needs. - Know, and talk about the different factors that support their overall health and wellbeing: regular physical activity; healthy eating; tooth brushing; sensible amounts of 'screen time'; having a good sleep routine; being a safe pedestrian.	Animals excluding humans: - Recognise some environments that are different to the one in which they live Light: - Describe what they see, hear and feel whilst outside: Shadow Puppets - Light Enquiry	<ul> <li>Talk about members of their immediate family and community</li> <li>Explore the natural world around them: Potato Rolling Enquiry (fair test planner introduced) – Linked to 'Supertato!'</li> </ul>	Forces: - Explore the natural world around them: Floating and Sinking Enquiry Sound: - Describe what they see, hear and feel whilst outside (recording on a sound walk)	<ul> <li>Explore the natural world around them</li> <li>Describe what they see, hear and feel whilst outside</li> <li>Recognise some environments that are different to the one in which they live</li> </ul>	- Explore the natural world around them: Ice melting – Materials Enquiry
			Science area introduced in continuous provision. Explore science area when 'choosing their own learning' – learning through play (e.g. magnets, magnifying glasses +3)			
	Daily routines – Understanding the W	ines – Understanding the World – Seasons - Understand the effect of changing seasons on the natural world around them				

	Everyday materials	Plants	Animals including humans			
<ul> <li>distir</li> </ul>	nguish between an object and the material from which it is made	NB. Introduced in the autumn and revisited in spring and summer	NB. 'Animals' objectives in spring; 'Humans' objectives in summer			
<ul> <li>ident</li> </ul>	tify and name a variety of everyday materials, including wood, plastic,	<ul> <li>identify and name a variety of common wild and garden plants, including</li> </ul>	<ul> <li>identify and name a variety of common animals including fish, reptiles,</li> </ul>			
glass, r	metal, water and rock	deciduous and evergreen trees	amphibians, birds and mammals			
●descr	ibe the simple physical properties of a variety of everyday materials	• identify and describe the basic structure of a variety of common flowering	<ul> <li>identify and name a variety of common animals that are carnivores,</li> </ul>			
• compare and group together a variety of everyday materials on the basis of		plants, including trees	herbivores and omnivores			
their si	imple physical properties		<ul> <li>describe and compare the structure of a variety of common animals (fish,</li> </ul>			
			reptiles, amphibians, birds and animals, including pets)			
			<ul> <li>identify, name, draw and label the basic parts of the human body and say</li> </ul>			
	which part of the body is associated with each sense, including bottom					
	Seasonal Changes					
• obse	erve changes across the four seasons: environment, temperature, rainfall					
	• observe and describe weather associated with the searces and how day length varies					

• observe and describe weather associated with the seasons and how day length varies

	Animals including humans	Uses of everyday materials	Living things and their habitats		
2	<ul> <li>notice that animals, including humans, have offspring which grow into adults</li> <li>find out about and describe the basic needs of animals, including humans, for survival (water, food and air)</li> <li>describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene</li> </ul>	<ul> <li>identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</li> <li>find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</li> </ul>	<ul> <li>explore and compare the differences between things that are living, dead, and things that have never been alive</li> <li>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 o animals and plants, and how they depend on each other</li> <li>identify and name a variety of plants and animals in their habitats, including micro-habitats</li> <li>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.</li> </ul>		
	Plants				

• find out and describe how plants need water, light and a suitable temperature to grow and stay healthy

	Animals including humans	Forces and magnets	Rocks and Fossils	Plants	Light
	<ul> <li>Identify that animals, including humans, need the right types and amount of nutrition</li> <li>Can identify that humans and some other animals have skeletons and muscles for support, protection and movement</li> </ul>	<ul> <li>Compare how things move on different surfaces</li> <li>Notice that some forces need contact between two objects, but magnetic forces can act at a distance</li> <li>Observe how magnets attract or repel each other, and attract some materials and not others</li> <li>Describe magnets as having two poles</li> <li>Predict whether two magnets will attract or repel each other, depending on which poles are facing</li> <li>Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet</li> </ul>	<ul> <li>Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>Describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>Recognise that soils are made from rocks and organic matter</li> </ul>	<ul> <li>Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves, flowers</li> <li>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</li> <li>Investigate the way in which water is transported within plants</li> <li>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal</li> </ul>	<ul> <li>Recognise they need light in order to see things and that dark is the absence of light</li> <li>Notice that light is reflected from surfaces</li> <li>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes</li> <li>Recognise that shadows are formed when the light from a light source is blocked by a solid object</li> <li>Find patterns in the way that the size of shadows change</li> </ul>

	Animals including humans	Sound	Electricity	Materials: States of Matter	Living things and their habitats
4	• Describe the simple functions of the basic	<ul> <li>Identify how sounds are made, associating</li> </ul>	<ul> <li>Identify common appliances that run on</li> </ul>	<ul> <li>Compare and group materials together,</li> </ul>	<ul> <li>Recognise that living things can be grouped</li> </ul>
	parts of the digestive system in humans	some of them with something vibrating	electricity	according to whether they are solids, liquids	in a variety of ways
	<ul> <li>Identify the different types of teeth in</li> </ul>	<ul> <li>Recognise that vibrations from sounds</li> </ul>	<ul> <li>Construct a simple series electrical circuit,</li> </ul>	or gases	<ul> <li>Explore and use classification keys to help</li> </ul>
	humans and their simple functions	travel through a medium to the ear	identifying and naming its basic parts,	<ul> <li>Observe that some materials change state</li> </ul>	group, identify and name a variety of living
	<ul> <li>Construct and interpret a variety of food</li> </ul>	•Find patterns between the pitch of a sound	including cells, wires, bulbs, switches and	when they are heated or cooled, and	things in their local and wider environment
	chains, identifying producers, predators and	and features of the object that produced it	buzzers	measure or research the temperature at	<ul> <li>Recognise that environments can change</li> </ul>
	prey	<ul> <li>Find patterns between the volume of a</li> </ul>	<ul> <li>Identify whether or not a lamp will light in</li> </ul>	which this happens in degrees Celsius (°C)	and that this can sometimes pose dangers to
		sound and the strength of the vibrations that	a simple series circuit, based on whether or	<ul> <li>Identify the part played by evaporation and</li> </ul>	living things
		produced it	not the lamp is part of a complete loop with	condensation in the water cycle and	
		<ul> <li>Recognise that sounds get fainter as the</li> </ul>	a battery	associate the rate of evaporation with	
		distance from the sound source increases	<ul> <li>Recognise that a switch opens and closes a</li> </ul>	temperature	
			circuit and associate this with whether or not		
			a lamp lights in a simple series circuit		
			<ul> <li>Recognise some common conductors and</li> </ul>		
			insulators, and associate metals with being		
			good conductors		

	Properties and changes of materials	Earth & Space	Forces	Living Things and their Habitats	Animals including Humans
5	• Compare and group together everyday materials on the basis of	<ul> <li>Describe the movement of the Earth, and</li> </ul>	<ul> <li>Explain that unsupported objects fall</li> </ul>	<ul> <li>Describe the differences in the life</li> </ul>	<ul> <li>Describe the changes as</li> </ul>
	their properties, including their hardness, solubility, transparency,	other planets, relative to the Sun in the	towards the Earth because of the force of	cycles of a mammal, an amphibian,	humans develop to old age
	conductivity (electrical and thermal), and response to magnets	solar system	gravity acting between the Earth and the	an insect and a bird	
	<ul> <li>Know that some materials will dissolve in liquid to form a</li> </ul>	<ul> <li>Describe the movement of the Moon,</li> </ul>	falling object	<ul> <li>Describe the life process of</li> </ul>	
	solution, and describe how to recover a substance from a solution	relative to the Earth	<ul> <li>Identify the effects of air resistance, water</li> </ul>	reproduction in some plants and	
	<ul> <li>Use knowledge of solids, liquids and gases to decide how</li> </ul>	<ul> <li>Describe the Sun, Earth and Moon as</li> </ul>	resistance and friction that act between	animals	
	mixtures might be separated, including through filtering, sieving	approximately spherical bodies	moving surfaces		
	and evaporating	<ul> <li>Use the idea of the Earth's rotation to</li> </ul>	<ul> <li>Recognise that some mechanisms,</li> </ul>		
	• Give reasons, based on evidence from comparative and fair	explain day and night, and the apparent	including levers, pulleys, and gears, allow a		
	tests, for the particular uses of everyday materials, including	movement of the Sun across the sky	smaller force to have a greater effect		
	metals, wood and plastic				
	<ul> <li>Demonstrate that dissolving, mixing and changes of state are</li> </ul>				
	reversible				
	<ul> <li>Explain that some changes result in the formation of new</li> </ul>				
	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				

	Living Things and their Habitats	Electricity	Light	Animals including Humans	Evolution and Inheritance
6	<ul> <li>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</li> <li>Give reasons for classifying plants and</li> </ul>	<ul> <li>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</li> <li>Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers</li> </ul>	<ul> <li>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</li> <li>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</li> </ul>	<ul> <li>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</li> <li>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies</li> </ul>	<ul> <li>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</li> <li>Recognise that living things produce offspring of the same kind, but normally</li> </ul>
	animals based on specific characteristics	<ul> <li>and the on/off position of switches</li> <li>Use recognised symbols when representing a simple circuit in a diagram</li> </ul>	• Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	<ul> <li>function</li> <li>Describe the ways in which nutrients and water are transported within animals, including humans</li> </ul>	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