

			<p>I know how to identify and name a variety of plants and animals in their habitats, including microhabitats.</p> <p>I know how to identify, name, draw and label the basic parts of the human body and say which part is associated with each sense.</p>	<p>carnivores, herbivores and omnivores</p> <p>I know how to describe and compare the structure of a variety of common animals.</p> <p>I know animals and humans have offspring with grow to adults.</p> <p>I can describe the importance for humans of exercise, eating right and hygiene.</p> <p>I know how to investigate and describe the basic needs of animals and humans for survival.</p>	<p>I can describe the simple functions and parts of the digestive system in humans – The Greeks.</p> <p>I know that humans and some animals have skeletons and muscles for support, protection and movement – The Greeks.</p>	<p>I know how to identify the different types of teeth in humans and their simple functions – The Romans</p>	<p>I can recognise the importance of diet, exercise, drugs and lifestyle on the way the human body functions</p> <p>I know how to describe the ways in which nutrients and water are transported within animals and humans</p>	
To investigate living things	I can begin to care for the natural environment and living things	<p>I can explore natural habitats found in gardens.</p> <p>I can describe basic life cycles of garden plants and animals</p>		<p>I know that most living things live in habitats to which they are suited and describe how the different habitats meet an animal’s needs.</p> <p>I know the name of a variety of plants and animals in their habitats and know how to describe how simple food chains work</p>	<p>.I know how to recognise that environments change and this can sometimes pose dangers to specific habitats – Amazing Americas.</p>	<p>I know that living things can be grouped in a variety of ways – Word Traveller.com.</p> <p>I know how to explore and use classification keys – Word Traveller.com</p>	<p>I know how to describe the different life cycles of mammals, amphibians, insects and birds.</p> <p>I know and can describe the process of reproduction in some plants and animals.</p> <p>I know and can describe how living things are classified in to broad groups according to common observable characteristics.</p> <p>I know and can give reasons for classifying plants and animals based on specific characteristics.</p>	
To understand evolution and inheritance					<p>I know how to identify how plants and animals resemble their parents in many features - Amazing Americas.</p> <p>I know how living things have changed over time and that fossils and other sources of information help us identify living things who lived on the Earth long ago – Stone Age.</p> <p>I know how to identify how animals and plants are suited to and adapt to their environment in different ways – Amazing Americas (Rainforest).</p>		<p>I know how to recognise that living things have changed over time and fossils provide information about living things that inhabited the Earth millions of years ago.</p> <p>I know how to recognise that living things produce offspring of the same kind, but normally offspring vary.</p> <p>I know how to identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p>	

	Chemistry							
Concept	Pre-School	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
To investigate materials	<p>I can use my senses to explore natural materials.</p> <p>I can explore naturally occurring changes in state.</p>	<p>I know how to use my senses to explore natural materials.</p> <p>I know and can talk about the differences between materials and changes.</p>	<p>I know and can distinguish between an object and the material from which it is made.</p> <p>I know how to identify and name a variety of everyday materials as well as describe their simple physical properties,</p>	<p>I know and can identify and name a variety of everyday materials as well as describe their simple physical properties.</p> <p>I know how to compare and group a variety of everyday materials on the basis of their simple physical properties.</p> <p>I know how to identify and compare the suitability of a</p>	<p>I know how to compare and group different kinds of rocks based on simple physical properties – Stone Age.</p> <p>I know how to relate the properties of rocks to their formation – igneous or sedimentary – Stone Age.</p> <p>I know how to describe how fossils are formed when things that have lived are trapped</p>	<p>I know how to compare and group materials according to whether they are solids, liquids or gases – World Traveller.com.</p> <p>I can observe some materials change state of matter when heated or cooled and measure the temperature at which this happens – World Traveller.com.</p> <p>I know how to identify the part played by evaporation and</p>	<p>I know and understand how some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</p> <p>I know how to use knowledge of solids, liquids and gases to decide how mixtures might be separated including filtering, sieving and evaporating.</p> <p>I know how to demonstrate that dissolving, mixing and changes of state are reversible but that some changes result in the formation of</p>	

				variety of everyday materials for particular uses. I know how to find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	within sedimentary rock – Stone Age . I know how to recognise that soils are made from rocks and organic matter – Stone Age .	condensation in the water cycle and link the rate of evaporation to temperature – World Traveller.com .	new materials and that this kind of change is not reversible. I know how to group together materials based on evidence from comparative fair tests. I know and can give reasons based on evidence from fair tests for the particular uses of materials.	
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		Physics						
Concept	Pre-School	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
To understand the Earth’s movement in space	I can use my senses to explore the weather linked to the changing seasons	I can explore and experience the changing seasons. I know and understand the effect of changing seasons.	I can observe changes across the four seasons and describe weather associated with the seasons.	I know how to observe changes across the four seasons and describe weather associated with the seasons. I can observe the apparent movement of the sun during the day			I know and can describe the movement of the Earth and other planets relative to the sun. I know and can describe the movement of the moon relative to the Earth. I know and can describe the Sun, Earth and Moon as approximately spherical bodies. I know and can use the idea of the Earth’s rotation to explain day, night and the apparent movement of the sun across the sky. I know and can use the idea of the Earth’s rotation to explain day, night and the apparent movement of the stars across the night sky. I can describe the Earth’s movement around the sun and the moon relative to Earth I understand what the stars are.	
To understand light and seeing	I can explore light and shadows	I know and can explore how light travels using natural light sources. I know and can explore my senses.		I know how to observe and name a variety of light sources. I know and can explain that we see things because light travels from them to our eyes.	I know and recognise that we need light to see and that darkness is the absence of light I know light is reflected from surfaces I know light from the sun can be dangerous for my eyes and skin I know and recognise how shadows are formed and find patterns in the way they change	.		I know and understand that light travels in straight lines. I know and can explain that objects are seen because they give out or reflect light in to the eyes. I know and can explain how shadows have the same shape as the objects that cast them and predict the size of shadows when the position of a light source changes.
To investigate sound and hearing	I can explore my senses	I can explore my senses				I know how to identify how sounds are made, associating them with something vibrating – Making Connections I know and recognise that vibrations from sounds travel through a medium to the ear – Making Connections I know and recognise that sounds get fainter as the distance from the source increases. I know how to find patterns between the pitch of a sound and features of the object that produced it. I know how to find patterns between the volume of a sound and the strength of the vibrations that produced it.		

To understand electrical circuits				<p>I know how to identify common appliances that run on electricity.</p> <p>I know how to construct a simple series electrical circuit.</p>		<p>I know and can identify common appliances that run on electricity – Making Connections</p> <p>I know how to construct a simple circuit and identify and name its basic parts – Making Connections</p> <p>I know how to identify whether or not a lamp will light on a circuit based on if it is complete or not – Making Connections</p> <p>I know how to recognise common conductors and insulators – Making Connections</p>		<p>I know and can associate the brightness of the lamp or volume of a buzzer with the number and voltage of cells.</p> <p>I know and can compare and give reasons for variations in how components function.</p> <p>I know and can use recognised symbols when representing a simple circuit in a diagram.</p>
To understand movement, forces and magnets	I can explore and talk about different forces I can feel	I can observe and interact with forces			<p>I know how to compare how things move on different surfaces –</p> <p>I know and can discuss the fact that some forces need contact between two objects but magnetic forces can act at a distance –</p> <p>I know how to observe how magnets attract or repel each other and attract some materials and not others –</p> <p>I know how to compare and group objects based on their magnetism –</p> <p>I know how to describe magnets as having two poles and use my knowledge to predict attraction or repulsion –</p>		<p>I know how to describe magnets as having two poles.</p> <p>I can predict whether two magnets will attract or repel.</p> <p>I know and can identify the effect of drag forces e.g. water resistance and friction.</p> <p>I know and understand that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.</p> <p>I know how to explain that unsupported objects fall towards the Earth because of gravity.</p>	