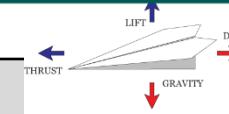
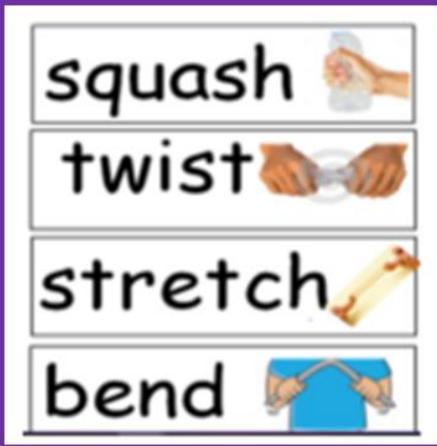
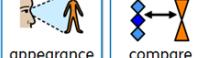
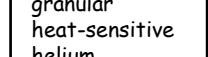
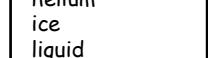
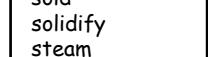
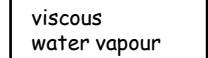
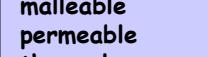
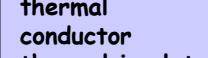
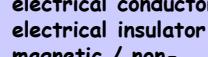
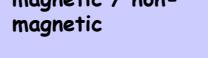


FORCES - Autumn 1 YEAR 5



Year 2	Year 3	Year 5	
<ul style="list-style-type: none"> Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. (Y2 - Uses of everyday materials) 	<ul style="list-style-type: none"> Compare how things move on different surfaces. Notice that some forces need contact between two 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 two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing 	<ul style="list-style-type: none"> 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. 	
	force push/pushing pull/pulling contact force non contact force magnetic force magnet strength bar magnet ring magnet button magnet horseshoe magnet attract repel magnetic material	non magnetic material poles north pole south pole pendulum slide smooth surface texture	fall Earth gravity air resistance water resistance friction moving surfaces Mechanisms Magnetism Oppose Pivot pulley levers pulleys gears force Transfers load

MATERIALS (properties and uses) Autumn 2, YEAR 5

Year 1	Year 2	Year 3	Year 4	Year 5	
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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. <div style="border: 1px solid black; padding: 10px; text-align: center;">     </div>	<ul style="list-style-type: none"> 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. Notice that some forces need contact between two objects, but magnetic forces can act at a distance. 	<ul style="list-style-type: none"> Compare and group materials together, according to whether they are solids, liquids or 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. 	<ul style="list-style-type: none"> 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. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. 	
                 	           	            	            	            	  



EARTH & SPACE- YEAR 5 - Spring 1

Year 1	Year 5	KS3
<ul style="list-style-type: none"> Observe changes across the four seasons. (Y1 - Seasonal changes) Observe and describe weather associated with the seasons and how day length varies. (Y1 - Seasonal changes) <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="flex: 1;">  <p>season</p>  <p>spring</p>  <p>summer</p>  <p>autumn</p>  <p>winter</p>  <p>weather</p>  <p>hot/warm</p>  <p>cool/cold</p>  <p>sun/sunny</p>  <p>cloud/cloudy</p>  <p>wind/windy</p>  <p>rain/rainy</p> </div> <div style="flex: 1; margin-top: 20px;">  <p>snow/snowing</p>  <p>hail/hailing</p>  <p>sleet</p>  <p>frost</p>  <p>fog/mist</p>  <p>ice/icy</p>  <p>rainbow</p>  <p>thunder</p>  <p>lightning</p>  <p>storm</p>  <p>light/dark</p>  <p>day/night</p> </div> </div>	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Gravity force, weight = mass x gravitational field strength (g), on Earth $g=10$ N/kg, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only) Our Sun as a star, other stars in our galaxy, other galaxies. The seasons and the Earth's tilt, day length at different times of year, in different hemispheres. The light year as a unit of astronomical distance.
	dawn diameter dusk horizon midday spherical sunrise sunset axis moon orbit planet rotate solar system	star year dark/darkness light light source opaque shadow sun



Year 2	Year 4	Year 5	Year 6	
<ul style="list-style-type: none"> 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. Notice that animals, including humans, have offspring which grow into adults. (Y2 - Animals including humans) 	<ul style="list-style-type: none"> Recognise that environments can change and that this can sometimes pose dangers to living things. 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. Construct and interpret a variety of food chains, identifying producers, predators and prey. (Y4 - Animals, including humans) 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics. 	
 living  not living  never been alive  food chain  depend  breathe  grow  move  producer  pond  consumer  woodland  feed  offspring  healthy  habitat  micro-habitat  environment  carnivore  herbivore  omnivore	<p>compare litter evaluate variable biodegradable compost decompose environment filter fungi micro-organism</p> <p>organism pollution rank decay decomposer food chain</p>	<p>dissect anther asexual breeding embryo filament female fertilisation gestation larva male mate metamorphosis ovary ovule propagation pupa reproduction seed</p>	<p>Anthropod Cone Conifer Enchinodermata Fern Flatworm Monera Moss Mould Needle Protista Spore Taxonomy Annelid Arachnid Carpel Crustacean Fungi</p>	<p>Mollusc myriapod Organism Reproduction Species Stamen Cold-blooded Warm-blooded</p>



MATERIALS (separating mixtures/changing materials) Summer 1, YEAR 5

Year 1	Year 2	Year 3	Year 4	Year 5																																																																																																																																																																																																																																																			
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YEAR 5, ANIMALS INCLUDING HUMANS (human growth) - Summer 2

Year 1	Year 2	Year 3	Year 4/5/6																																				
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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. 	<p>Y4</p> <ul style="list-style-type: none"> 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. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <table border="0"> <tr> <td>contract</td> <td>food web</td> <td>small intestine</td> </tr> <tr> <td>flow</td> <td>incisor</td> <td>stomach</td> </tr> <tr> <td>function</td> <td>jaw</td> <td>vomit</td> </tr> <tr> <td>grind</td> <td>large intestine</td> <td></td> </tr> <tr> <td>anus</td> <td>mechanical</td> <td></td> </tr> <tr> <td>canine</td> <td>milk teeth</td> <td></td> </tr> <tr> <td>chemicals</td> <td>molar</td> <td></td> </tr> <tr> <td>constipation</td> <td>oesophagus</td> <td></td> </tr> <tr> <td>decompose</td> <td>predator</td> <td></td> </tr> <tr> <td>diarrhoea</td> <td>prey</td> <td></td> </tr> <tr> <td>digestion</td> <td>rectum</td> <td></td> </tr> <tr> <td>extinct</td> <td>saliva</td> <td></td> </tr> </table> </div>	contract	food web	small intestine	flow	incisor	stomach	function	jaw	vomit	grind	large intestine		anus	mechanical		canine	milk teeth		chemicals	molar		constipation	oesophagus		decompose	predator		diarrhoea	prey		digestion	rectum		extinct	saliva	
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<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>vertebrate</p> </div> <div style="text-align: center;">  <p>amphibian</p> </div> <div style="text-align: center;">  <p>mammal</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>birds</p> </div> <div style="text-align: center;">  <p>fish</p> </div> <div style="text-align: center;">  <p>insects</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>reptile</p> </div> <div style="text-align: center;">  <p>diet</p> </div> <div style="text-align: center;">  <p>adult</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>carnivore</p> </div> <div style="text-align: center;">  <p>herbivore</p> </div> <div style="text-align: center;">  <p>omnivore</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>birth</p> </div> <div style="text-align: center;">  <p>life cycle</p> </div> <div style="text-align: center;">  <p>healthy</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>diet</p> </div> <div style="text-align: center;">  <p>hygiene</p> </div> <div style="text-align: center;">  <p>hygienic</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>exercise</p> </div> <div style="text-align: center;">  <p>balanced</p> </div> <div style="text-align: center;">  <p>survival</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>food</p> </div> <div style="text-align: center;">  <p>water</p> </div> <div style="text-align: center;">  <p>air</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>exoskeleton</p> </div> <div style="text-align: center;">  <p>fat</p> </div> <div style="text-align: center;">  <p>fibre</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>heart</p> </div> <div style="text-align: center;">  <p>invertebrate</p> </div> <div style="text-align: center;">  <p>joint</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>minerals</p> </div> <div style="text-align: center;">  <p>nutrient</p> </div> <div style="text-align: center;">  <p>organ</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>protein</p> </div> <div style="text-align: center;">  <p>ribs</p> </div> <div style="text-align: center;">  <p>skull</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>spine</p> </div> <div style="text-align: center;">  <p>sugar</p> </div> <div style="text-align: center;">  <p>skeleton</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>tendon</p> </div> <div style="text-align: center;">  <p>vitamin</p> </div> <div style="text-align: center;">  <p>X-ray</p> </div> </div>	<p>Y5</p> <ul style="list-style-type: none"> Describe the changes as humans develop to old age. Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats) <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>abdomen</p> <p>Adam's apple</p> <p>breasts</p> <p>childhood</p> <p>genitals</p> <p>infancy</p> <p>menstruation/period</p> <p>newborn</p> <p>pregnancy</p> <p>puberty</p> <p>pubic hair</p> <p>reproduction</p> </div> <div style="text-align: center;"> <p>sweat</p> <p>teenage</p> <p>umbilical cord</p> <p>uterus</p> <p>vagina</p> <p>hygiene</p> <p>life cycle</p> <p>mammal</p> <p>muscle</p> <p>organ</p> </div> </div> <p>Y6</p> <ul style="list-style-type: none"> identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood describe the ways in which nutrients and water are transported within animals, including humans. <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>circulate</p> <p>contract</p> <p>flow</p> <p>pump</p> <p>system</p> <p>transport</p> <p>aorta</p> <p>arteries</p> <p>atrium</p> <p>blood</p> <p>blood vessels</p> </div> <div style="text-align: center;"> <p>capillaries</p> <p>cell</p> <p>deoxygenated blood</p> <p>hormone</p> <p>oxygenated blood</p> <p>plasma</p> <p>platelets</p> <p>pulmonary artery</p> <p>pulse</p> <p>red blood cells</p> <p>valve</p> <p>veins</p> </div> <div style="text-align: center;"> <p>ventricle</p> <p>white blood cells</p> </div> </div>																																				