



KS2 Science Curriculum Plan

Year 3/4/5/ 6	Autumn Christmas		Spring Easter		Summer	
	Y3	Y4	Y3	Y4	Y3	Y4
Year A/B	<p><u>Animals including humans</u> 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.</p>	<p><u>Animals including humans</u> 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,</p>	<p><u>Light</u> Recognise that they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to</p>	<p><u>Electricity</u> Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on</p>	<p><u>Rocks</u> 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</p>	<p><u>States of matter</u> Compare solids, liquids or gases. Observe that some materials change state when they are heated or cooled. The water cycle. Produce rubbings of fossils</p>

	<p>Identify that humans and some animals have skeletons and muscles for support, protection and movement.</p> <p>Eat something you have grown</p>	<p>identifying producers, predators and prey.</p> <p><u>Living things and their habitats</u></p> <p>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. Recognise that environments can change and that this can sometimes pose dangers to living things.</p> <p>Eat something you have grown</p>	<p>protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by a solid object. Find patterns in the way that the size of shadows changes.</p> <p>Light a candle</p> <p><u>Forces and magnets</u></p> <p>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.</p>	<p>whether or not the lamp is part of a complete loop with a battery. Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. Recognise some common conductors and insulators, and associate metals with being good conductors.</p> <p>Light a candle</p> <p><u>Forces and magnets</u></p> <p>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</p>	<p>have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.</p> <p>Produce rubbings of fossils</p>	
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	Y5	Y6	Y5	Y6	Y5	Y6
Year A/B	<p><u>Animals including humans</u></p> <p>Describe the changes as humans develop to old age.</p>	<p><u>Evolution and inheritance</u></p> <p>Recognise that living things have changed over time and that fossils provide information about</p>	<p><u>Light</u></p> <p>Recognise that light appears to travel in straight lines.</p> <p>Use the idea that light travels in straight lines to explain that</p>	<p><u>Electricity</u></p> <p>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.</p> <p>Compare and give reasons</p>	<p><u>Earth and Space</u></p> <p>Describe the movement of the Earth, and other planets, relative to the sun in the solar system.</p>	<p><u>Earth and Space</u></p> <p>Describe the movement of the Earth, and other planets, relative to the sun in the solar system.</p>

	<p><u>All living things and their habitats</u> Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life processes of reproduction in some plants and animals.</p> <p>Eat something you have grown</p>	<p>living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally 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.</p> <p><u>Animals, including humans</u> Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels</p>	<p>objects are seen because they emit or reflect light into the eye. 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. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</p> <p>Design and make an electric model</p> <p><u>Forces</u> Explain that unsupported objects fall towards the earth</p>	<p>for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram.</p> <p>Design and make an electric model</p> <p><u>Forces</u> Explain that unsupported objects fall towards the earth because of the 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</p>	<p>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.</p> <p>Make an air powered rocket</p> <p>Make papier mache planets</p>	<p>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.</p> <p>Make an air powered rocket</p> <p>Make papier mache planets</p>
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		<p>and blood. Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.</p> <p><u>Living things and their habitats</u> Describe how living things are classified into broad groups according to common observable characteristics and base on similarities and differences, including micro-organisms, plants and animals. Give reasons for</p>	<p>because of the 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.</p>	<p>mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.</p>		
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		classifying plants and animals based on specific characteristics. Eat something you have grown				
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Activity passport experiences