

We use the Engaging Science scheme of work to support our teaching of the science National Curriculum.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Y1/2_</b></p> <p><b>Weather (each term)</b> Pupils will observe changes across the four seasons. They will observe and describe weather associated with the seasons and how day length varies._</p> <p><b>Our Environment &amp; Seasonal Change Review</b> Pupils study the same natural area during the course of the year, looking at how the area as a whole changes and at how individual aspects such as a single tree change during the different seasons. They use their senses to observe the area and find common animals and plants within the area. They learn how to show respect for the area and for the living things in it.</p>	<p><b>The Animal Kingdom 1.2</b> Pupils will become familiar with common British vertebrates and invertebrates. They will learn about the different groups of vertebrates and be able to describe the main external features of each group. They will look at what animals eat and will understand that different animals have different diets. They will describe the external human body in detail.</p>	<p><b>Local habitats 2.1</b> Pupils visit the same habitats and microhabitats at different times of year and explore the seasonal changes in a habitat and a micro-habitat. They continue to develop their observation skills.</p> <p><b>2.3 Animals and their Needs</b> In this unit pupils begin by learning about the stages of human growth. They learn that animals grow until they are adult and that that different animals start life in different forms, some as eggs and some as live births and they look at the needs of the young of different species. Throughout the unit they observe some animals as they grow, both in the classroom, and through webcams on the Internet. This unit should be taught in late spring when it is possible to observe young birds and animals growing though online webcams.</p>	<p><b>Everyday Materials 1.3</b> Pupils develop vocabulary to describe material properties. They carry out a range of simple tests on materials and investigate the best material to make a particular object</p> <p><b>Materials 2.5</b> See 1.3</p>		<p><b>1.4 Plants</b> Pupils learn the names of some common native flowering plants and trees. They plant bulbs and/or seeds and observe their growth over a period of weeks. They go outside to study flowers and trees in wild and cultivated areas, making sketches and notes.</p> <p><b>Plants 2.4</b> Pupils learn the names of some common native flowering plants and trees. They plant bulbs and/or seeds and observe their growth over a period of weeks. They go outside to study flowers and trees in wild and cultivated areas, making sketches and notes.</p>	

<p style="text-align: center;">Y3/4</p>	<p><b>Unit 3.2 Animals and skeletons</b> Pupils revisit the classification of animals according to diet as carnivores, herbivores or omnivores, researching the diets of animals in more detail. They look at human dietary requirements and begin to identify different food types and their different uses in the body. Pupils learn about external and internal skeletons and study the names and functions of the major bones and muscles in the human body.</p>	<p><b>4.6 States of Matter</b> Pupils learn that materials come in three states of matter: solid, liquid or gas. They identify materials as solids, liquids or gases, including some that are harder to classify such as sand or sponge. They learn how to use a thermometer and investigate changes of state. They learn about the water cycle.</p>	<p><b>3.4 Plants</b> Pupils will carry out a long-term investigation of the factors that affect the growth of plants, observing and measuring their plants for the course of the unit. They will learn about the main functions of the different parts of a plant and will study the life cycle of a flowering plant, including studying the structure of a flower and the different methods of seed dispersal.</p> <p><b>Habitats:</b> Pupils will explore the flora and fauna of the biomes in their geographical regions.</p>	<p><b>Unit 3.6 Rocks</b> Pupils explore the characteristics of rocks and learn their names. They carry out simple tests on different rocks and use chocolate to model how rocks are made. They explore the composition of soil and think about how soil is made. They learn about the formation of fossils and make their own model fossils. They look at pictures of dinosaur fossils and try to come to some conclusions about the living dinosaurs the fossils came from.</p>	<p><b>Unit 3.5 Light</b> Pupils learn to distinguish a light source from reflected light. They learn that light travels in straight lines, study how we see and are taught how to protect their eyes. They investigate the transparency of fabrics using data loggers and carry out some experiments to find out about shadow formation.</p> <p><b>Habitats:</b> Pupils will explore the flora and fauna of the biomes in their geographical regions.</p>	<p><b>3.3 Forces and Magnets</b> Pupils explore magnetism and non-contact forces, suspending magnetic items in mid-air under the influence of magnetic forces. They test materials for magnetic properties and think about what materials are magnetic. They describe the properties of a magnet in simple terms and learn about the uses of magnets.</p> <p><b>Habitats:</b> Pupils will explore the flora and fauna of the biomes in their geographical regions.</p>
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<p style="text-align: center;"><b>Y6</b></p>	<p><b>5.4 Mixtures and Reactions</b>            After reviewing and extending their knowledge of materials from previous years, pupils study dissolving and learn how to recover materials from a solution. They look at other methods of separating mixtures. They investigate chemical reactions including burning and use a key and a series of simple tests to identify some mystery powders. They learn about reversible and irreversible changes.</p> <p><b>Habitats</b>            Pupils will apply their knowledge of classification, identification and feeding to explore the Polar habitats.</p>	<p><b>6.2 Heart and Lungs</b>            Pupils study the circulatory system, learning about the basic components that make up blood, how the heart works and how blood circulates round the body. They learn about the lungs and the process of breathing and investigate the effect of exercise on the heart and breathing rates. They learn about the effects of smoking and alcohol.</p>	<p><b>6.3 Classification</b>            Overview of the unit:            Pupils build on their knowledge of classification from previous years and look at the classification of invertebrates and microorganisms in more detail and playing games to help them learn about microorganisms and classes of invertebrates. They study yeast, observing its growth, using it to make bread.</p>
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