

# Science Whole School Overview

Class	Group	Term 1	Term 2	Term 3
Winstanley	YR&1	<p><b>Exploring Autumn</b> This project teaches children about the natural changes that happen during the season of autumn, including how the weather changes, why trees lose their leaves and how wild animals prepare for winter.</p> <p><b>Shadows and Reflections</b> This project teaches children about natural phenomena, including shadows, reflections and echoes. They explore how shadows are formed and how they can change.</p>	<p><b>Beachcombers</b> This half term, we'll visit a local beach to experience the sights, sounds and smells of the seashore and explore rock pools to find living and non-living things. Bringing shells, pebbles and seaweed back to the classroom will help us to learn about a wide range of coastal plants and creatures. We'll read a range of seaside stories and use the coast as a setting for our writing. At the end of the project, we'll decide how we should look after the coastal environment and how the beach can be kept clean.</p>	<p><b>Sunshine and Sunflowers</b> This seasonal project provides opportunities for outdoor learning and teaches children how to care for the plants and animals in their local environment and how to stay safe in the sun.</p>
Bingham	2 &3	<p><b>Animal Survival</b> This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter.</p>	<p><b>Uses of Materials</b> This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed.</p>	<p><b>Plant survival</b> This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants firsthand, recording changes over time and identifying what plants need to grow and stay healthy.</p>

			<p><b>Human Survival</b> This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood.</p>	<p><b>Habitats</b> This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify, and name living things and begin to understand how they depend on one another for food and shelter.</p>
Erikson	4	<p><b>Light and Shadows</b> This project teaches children about light and dark. They investigate the phenomena of reflections and shadows, looking for patterns in collected data. The risks associated with the Sun are also explored.</p> <p><b>Food and Digestive System</b> This project teaches children about the human digestive system. They explore the main parts, starting with the mouth and teeth, identifying teeth types and their functions. They link this learning to animals' diets and construct food chains to show the flow of energy.</p>	<p><b>Grouping and classifying</b> This project teaches children about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.</p> <p><b>States of Matter (Spr)</b> This project teaches children about solids, liquids and gases and their characteristic properties. They observe how materials change state as they are heated and cooled, and learn key terminology associated with these processes.</p>	<p><b>Rocks</b> This project teaches children about the features and characteristics of Earth's layers, including a detailed exploration of volcanic, tectonic and seismic activity.</p> <p><b>Electrical circuits and conductors</b> This project teaches children about electrical appliances and safety. They construct simple series circuits and name their parts and functions, including switches, wires and cells. They investigate electrical conductors and insulators and identify common features of conductors. It also teaches children about programmable devices. They combine their learning to design and make a nightlight.</p>
Cousteau	5	<p><b>Light and shadow</b> This project teaches children about light and dark. They investigate the phenomena of reflections and shadows, looking for patterns in collected data. The risks associated with the Sun are also explored.</p>	<p><b>Burps, Bottoms and Biles (Human digestion)</b> The children will take dental impressions and test the effects of sugary substances on their pearly whites. Follow a tasty morsel as it makes its way through their digestive system, helped by some mouthwatering saliva. And don't</p>	<p><b>States of Matter</b> This project teaches children about solids, liquids and gases and their characteristic properties. They observe how materials change state as they are heated and cooled, and learn key terminology associated with these processes.</p>

			<p>forget the importance of good hygiene and learning how to look after your body.</p> <p><b>Rocks, Relics and Rumbles</b> This project teaches children about the features and characteristics of Earth's layers, including a detailed exploration of volcanic, tectonic and seismic activity.</p>	<p><b>Human reproduction and aging</b> This project teaches children about animal life cycles, including the human life cycle. They explore human growth and development to old age, including the changes experienced during puberty and human reproduction.</p>
Fiennes and Mallory	6	<p><b>Light Theory</b> This project teaches children about the way that light behaves, travelling in straight lines from a source or reflector, into the eye. They explore how we see light and colours, and phenomena associated with light, including shadows, reflections and refraction.</p> <p><b>Electrical circuits and components</b> This project teaches children about electrical circuits, their components and how they function. They recognise how the voltage of cells affects the output of a circuit and record circuits using standard symbols. It also teaches children about programmable devices, sensors and monitoring. They combine their learning to design and make programmable home devices.</p>	<p><b>Evolution and Inheritance</b> This project teaches children how living things on Earth have changed over time and how fossils provide evidence for this. They learn how characteristics are passed from parents to their offspring and how variation in offspring can affect their survival, with changes (adaptations) possibly leading to the evolution of a species.</p>	<p><b>Circulatory system</b> This project teaches children about the transport role of the human circulatory system, its main parts and primary functions. They learn about healthy lifestyle choices and the effects of harmful substances on the body.</p>