

### Overview of science units and Enquiry questions by Year group and term.

In some cases there will be additional subsidiary enquiry questions included as part of a unit of work that don't appear on this plan

	Autumn 1	Autumn 2	Spring1	Spring2	Summer1	Summer2
Reception	<p>Investigate/ understand: <b>All about me</b></p> <p>Enquiry question: <b>How do I look after my body?</b></p>	<p>Investigate/ understand: <b>Plane journey to 4 contrasting environments e.g. The Polar Regions, The Rainforest, The Desert and our Local Environment.</b></p> <p>Enquiry question: <b>How does ice change?</b></p>		<p>Investigate/ understand: <b>Seasons</b></p> <p>Enquiry question: <b>What happens in spring?</b></p>	<p>Investigate/ understand: <b>Mini beasts</b></p> <p>Enquiry question: <b>What is a life cycle?</b></p>	
Year 1	<p>Investigate/ understand: <b>Materials</b></p> <p>Enquiry question: <b>Which materials would be the most suitable to make Ted's umbrella from?</b></p>	<p>Investigate/ understand: <b>Seasons</b></p> <p>Enquiry question: <b>What are the observational changes from autumn to winter?</b></p>	<p>Investigate/ understand: <b>Seasons</b></p> <p>Enquiry question: <b>What are the observational changes from winter to spring?</b></p> <p><b>How much rain falls in a week?</b></p>	<p>Investigate/ understand: <b>Plants</b></p> <p>Enquiry question: <b>What do plants need to grow?</b></p>	<p>Investigate/ understand: <b>Animals including humans</b></p> <p>Enquiry question: <b>What do different parts of the body do?</b></p> <p><b>How do our senses work?</b></p>	<p>Investigate/ understand: <b>Animals including humans</b></p> <p>Enquiry question: <b>How can we identify and name a variety of common animals that are carnivores, herbivores and omnivores?</b></p>

Year 2	<p>Investigate/ understand: <b>Animals including humans, healthy eating, exercise and hygiene</b></p> <p>Enquiry question: <b>What makes a healthy meal?</b></p>	<p>Investigate/ understand: <b>materials</b></p> <p>Enquiry question: <b>Which wrapping paper is the strongest for Father Christmas to use?</b></p> <p><b>Can the shape of objects change?</b></p>	<p>Investigate/ understand: <b>Living things and their habitats</b> <b>Animals including humans</b></p> <p>Enquiry question: <b>Why do some animals like elephants and zebras live near Mugurameno village and not near Roche?</b></p> <p><b>What do animals and humans need to survive?</b></p>		<p>Investigate/ understand: <b>Living things and their habitats</b> <b>Plants</b></p> <p>Enquiry question: <b>What mini-beasts find micro-habitats at Roche School?</b></p> <p><b>What do my seeds and bulbs need to grow and stay healthy?</b></p>	<p>Investigate/ understand: <b>Plants</b></p> <p>Enquiry question: <b>Continuation of Summer 1</b></p>
Year 3	<p>Investigate/ understand: <b>Animals including humans</b></p> <p>Enquiry question: <b>How do humans stay healthy?</b></p> <p><b>Which bones offer support, movement and protection?</b></p>	<p>Investigate/ understand: <b>Rocks and soils</b></p> <p>Enquiry question: <b>Why don't all rocks look the same?</b></p>	<p>Investigate/ understand: <b>Forces and magnets</b></p> <p>Enquiry question: <b>Which surface has the most friction?</b></p> <p><b>Are all metals magnetic?</b></p>		<p>Investigate/ understand: <b>Plants</b> <b>Rocks and Soils (soil objective)</b></p> <p>Enquiry question: <b>What does a plant need to survive?</b></p> <p><b>Isn't soil just earth or mud?</b></p>	<p>Investigate/ understand: <b>Light</b></p> <p>Enquiry question: <b>How is a shadow formed?</b></p> <p><b>Does a shadow's size and shape change over a period of time?</b></p>

Year 4	<p>Investigate/ understand: <b>Sound</b></p> <p>Enquiry question: <b>How are sounds made?</b></p>	<p>Investigate/ understand: <b>Electricity</b></p> <p>Enquiry question: <b>How can you make a light bulb light up?</b></p>	<p>Investigate/ understand: <b>Animals including humans</b></p> <p>Enquiry question: <b>Is the digestive system longer than..?</b></p>	<p>Investigate/ understand: <b>States of matter</b></p> <p>Enquiry question: <b>Does temperature affect the rate of evaporation?</b></p>	<p>Investigate/ understand: <b>Living things and habitats</b></p> <p>Enquiry question: <b>How are living things classified?</b></p> <p><b>What is the impact of deforestation?</b></p>
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Year 5	<p>Investigate/ understand: <b>Earth and space</b></p> <p>Enquiry question: <b>What is Space?</b></p> <p><b>Does the drop height of a meteor affect the size of the crater?</b></p>		<p>Investigate/ understand: <b>Forces</b></p> <p>Enquiry question: <b>What is a force?</b></p> <p><b>Can I make a safer parachute?</b></p>	<p>Investigate/ understand: <b>Properties of materials</b></p> <p>Enquiry question: <b>Are all changes permanent?</b></p> <p><b>Which cup will keep Miss Goatman's coffee warmest the longest?</b></p>	<p>Investigate/ understand: <b>Living things and their habitats</b></p> <p><b>Animals inc. humans</b></p> <p>Enquiry question: <b>Do all living things have the same life cycle?</b></p>
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Year 6		<p>Investigate/ understand: <b>Evolution and inheritance</b></p> <p>Enquiry question: <b>How can we organise animals into different groups? Why would we do this?</b></p> <p><b>How do we know that living things used to inhabit the Earth? How and why have they changed over time?</b></p> <p><b>What is the importance of fossils and how are they formed?</b></p> <p><b>How do different sorting and classifying diagrams work?</b></p>	<p>Investigate/ understand: <b>Electricity</b></p> <p>Enquiry question: <b>Can the outcome of a circuit be change?</b></p> <p><b>How can you prove this?</b></p>	<p>Investigate/ understand: <b>Light</b></p> <p>Enquiry question: <b>How does light travel?</b></p>		<p>Investigate/understand: <b>Animals including humans</b></p> <p>Enquiry question: <b>What is the circulatory system? How does it work? What might affect how it functions?</b></p> <p><b>What effects how our bodies function and what are the impact of these effects?</b></p>
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