



# Scientific Enquiry Overview



	Autumn		Spring		Summer
<b>Year 1</b>	<p><b>Everyday Materials</b></p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: What is the best material to make wellies out of?</p>	<p><b>Seasonal Changes</b></p> <p>Enquiry type: Observing over time</p> <p>Extended enquiry question: How has my playground changed throughout the year?</p>	<p><b>Animals including humans (parts of body &amp; senses)</b></p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: Do people with bigger hands have bigger feet?</p>		<p><b>Plants</b></p> <p>Enquiry type: Identifying, classifying and grouping</p> <p>Extended enquiry question: What plants and trees are in my local environment?</p>
<b>Year 2</b>	<p><b>Use of everyday materials</b></p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: What is the best material to build a tent out of?</p>	<p><b>Animals including humans</b></p> <p>Enquiry type: Research</p> <p>Extended enquiry question: How does a butterfly grow?</p>	<p><b>Living Things and Habitats 1</b></p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: Where do ants live in my local environment?</p>		<p><b>Plants</b></p> <p>Enquiry type: Observation over time</p> <p>Extended enquiry question: What does a plant need to grow?</p>
<b>Year 3</b>	<p><b>Rocks</b></p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: How permeable are different types of soil?</p>	<p><b>Animals including humans</b></p> <p>Enquiry type: Research</p> <p>Extended enquiry question: Which meal contains the most... [children chose: sugar / fat / carbohydrate / protein / fibre] ?</p>	<p><b>Forces and magnets</b></p> <p>Enquiry type: Pattern seeking / fair testing</p> <p>Extended enquiry question: When being attracted by a magnet, does a paperclip move a greater distance on a smoother surface?</p>	<p><b>Light</b></p> <p>Enquiry type: Identifying, classifying and grouping</p> <p>Extended enquiry question: What materials are transparent, translucent and opaque?</p>	<p><b>Plants</b></p> <p>Enquiry type: Observation over time</p> <p>Extended enquiry question: How does water travel up a flower?</p>

<p>Year 4</p>	<p>States of Matter</p> <p>Enquiry type: Research</p> <p>Extended enquiry question: How does it rain?</p>	<p>Animals including humans</p> <p>Enquiry type: Observation over time</p> <p>Extended enquiry question: What is the effect of different liquids on an egg shell?</p>	<p>Living Things and their Habitats</p> <p>Enquiry type: Classifying</p> <p>Extended enquiry question: How many ways can you classify a [children chose a local animal to classify]?</p>	<p>Electricity</p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: How can I make a bulb brighter?</p>	<p>Sound</p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: What is the effect of distance on volume?</p>
<p>Year 5</p>	<p>Properties and changes Observing over time</p> <p>Enquiry type: Observing over time</p> <p>Extended enquiry question: What happens to a nail in water?</p>	<p>Animals including humans</p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: How can data about babies height, mass and gender tell us about how babies grow?</p>	<p>Living Things</p> <p>Enquiry type: Classifying</p> <p>Extended enquiry question: How can the life cycles of different birds be classified? (Children chose different birds)?</p>	<p>Forces Fair test</p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: On which surfaces do trainers move the slowest? (Children chose different surfaces)?</p>	<p>Space</p> <p>Enquiry type: Research</p> <p>Extended enquiry question: What else do I want to know about Earth and space? (Children chose questions to investigate)?</p>
<p>Year 6</p>	<p>Light</p> <p>Enquiry type: Fair testing</p> <p>Extended enquiry question: How does the distance an object is from a light source effect the length of its shadow? (Children can chose the object / own shadow and the distances to investigate)?</p>	<p>Animals including humans</p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: Do boys have higher pulse rates? (Children can chose to investigate other variables in the sentence stem 'Do _____ have a _____ pulse rate?')</p>	<p>Living things and their habitats</p> <p>Enquiry type: Observation over time</p> <p>Extended enquiry question: In what conditions does mould grow on bread? (Children can chose the conditions for mould to grow in)</p>	<p>Electricity</p> <p>Enquiry type: Pattern seeking</p> <p>Extended enquiry question: Does adding more / less [children insert component they would like to investigate] make a bulb brighter?</p>	<p>Evolution &amp; Inheritance</p> <p>Enquiry type: Research</p> <p>Extended enquiry question: How has a [children insert animal here] evolved over time and why has this happened?</p>