

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Observing Over Time	<p>How does my sunflower change each week?</p> <p>In which season does it rain the most?</p> <p>How does my height change over the year?</p>	<p>How much food and drink do I have over a week?</p> <p>What happens to my bean after I have planted it?</p>	<p>What happens to plants in different soils?</p> <p>If we magnetise a pin, how long does it stay magnetised for?</p>	<p>How does an egg shell change when it is left in cola?</p> <p>How does the level of water in a container change when left on a window ledge?</p>	<p>Observe the life cycle of an insect found in the local environment and compare this to the life cycle of insect found around the world.</p> <p>How does a dish of salt water change over time?</p>	<p>How does my heart rate change over the day?</p>
Pattern Seeking	<p>Is there a pattern in the types of materials that are used to make different objects in a school.</p>	<p>Which habitat do woodlice prefer? - Where can we find the most woodlice?</p> <p>Do bigger seeds grow into bigger plants?</p>	<p>Which foods give us most energy?</p> <p>Does the size and shape of a magnet affect how strong it is?</p> <p>How do shadows move and change shape?</p>	<p>Is there a specific type of habitat that minibeasts prefer on our school field?</p>	<p>Do all objects fall through water in the same way?</p> <p>Is there a pattern between the size of a planet and the time it takes to travel around the sun?</p>	<p>How does a mirror work? How do we increase the number of reflections?</p> <p>Is there a pattern between the size and shape of a bird's beak and the food it will eat?</p>
Research	<p>Do all animals have the same senses as humans?</p> <p>Are there plants that flower every season? What are they?</p> <p>Which materials can be recycled?</p>	<p>How does the habitat of the Australian Rainforest compare with the Australian outback?</p>	<p>Who was Mary Anning and what was she famous for?</p> <p>Can you name the different food groups? What would be your 'perfect' balanced meal?</p> <p>What are all the different ways that seeds can be dispersed?</p>	<p>How do dentists repair/fix damaged teeth?</p> <p>Can we find other animals to add complexity to our classification key?</p>	<p>Can you provide a range of factual information about a planet in our solar system?</p> <p>What are the stages in the life cycle of an insect/amphibian/bird?</p> <p>Research the features of reusable coffee cups.</p>	<p>Who were 'The Fathers of Electricity'?</p> <p>What happened when Charles Darwin visited the Galapagos Islands?</p>

<p>Identifying & Classifying</p>	<p>How can we sort the leaves that we collected on our walk?</p> <p>How can we organise all the zoo animals?</p>	<p>Which types of materials are used for which purpose?</p> <p>Which offspring belong to which animal?</p>	<p>Can I identify and classify different rocks?</p> <p>Which foods belong in which food groups?</p> <p>Which materials are magnetic?</p> <p>How do skeletons vary between animals?</p>	<p>How can we organise the different types of teeth we have into groups?</p> <p>Use a simple series circuit to test and group whether an object is a conductor or not.</p>	<p>Can you label and name all the forces acting on objects in a range of situations e.g. when a car is travelling on a road.</p> <p>Can you observe and identify all the phases in the cycle of the moon?</p>	<p>How are certain animals adapted to their environments?</p> <p>Can I classify animals based on specific characteristics?</p> <p>Create a classification key for a group of organisms.</p>
<p>Comparative Tests</p>	<p>Is our sense of smell better when we can't see?</p>	<p>Which material is most waterproof?</p> <p>Do cress seeds grow quicker inside or outside?</p>	<p>Which magnet is the strongest?</p>	<p>Which material is best for using to muffle sound in ear defenders?</p> <p>Which material is the best conductor of electricity?</p>	<p>Does the length of a spinner's wings affect how long it takes to fall?</p> <p>Which materials are the best for making a reusable coffee cup? Design and carry out comparative tests between 2 or more materials.</p> <p>How does the material a surface is made from effect the amount of friction it produces?</p>	<p>What happens to the brightness of the bulb when I change the voltage of cells in a circuit?</p> <p>Which objects produce the darkest shadows?</p> <p>Which type of exercise has the greatest effect on our heart rate?</p>
<p>Fair Tests</p>			<p>How does the length of the carnation stem affect how long it takes for the food colouring to dye the petals?</p>	<p>How does the volume of a drum change as you move further away from it?</p> <p>How long does it take different sized ice lollies to melt?</p>	<p>How does the temperature of water affect how long it takes for sugar to dissolve?</p> <p>How does age affect a human's reaction time?</p>	<p>How does the thickness of a wire affect how bright the lamp is?</p>