

## TYPES OF INVESTIGATIONS

TYPE OF INVESTIGATION	TYPE OF QUESTION
<p><b><i>FAIR TESTING</i></b></p> <ul style="list-style-type: none"> <li>Concerned with exploring the relationship between variables/factors</li> </ul>	<ul style="list-style-type: none"> <li>Which ball is the bounciest?</li> <li>Which cup keeps drinks hotter for longer?</li> <li>What affects the rate at which sugar dissolves?</li> </ul>
<p><b><i>CLASSIFYING and IDENTIFYING</i></b></p> <ul style="list-style-type: none"> <li>Arranging a large range of objects or events into groups.</li> <li>Requires identifying features that are common between members of the group.</li> </ul>	<ul style="list-style-type: none"> <li>What is this chemical?</li> <li>How could we group these shells/plants/animals/leaves?</li> <li>Where would we classify this invertebrate?</li> <li>What sort of animals are found in ponds/rivers...</li> </ul>
<p><b><i>PATTERN SEEKING</i></b></p> <ul style="list-style-type: none"> <li>Observing and recording natural phenomena.</li> <li>Performing surveys.</li> <li>Looking for patterns in data.</li> </ul>	<ul style="list-style-type: none"> <li>Where do snails prefer to live?</li> <li>Do taller people jump further?</li> <li>Does a type of plant growing in the shade have longer leaves than the same type growing in the sun?</li> </ul>
<p><b><i>EXPLORING</i></b></p> <ul style="list-style-type: none"> <li>Making careful observations of objects or events (over time).</li> </ul>	<ul style="list-style-type: none"> <li>What can you find out about magnets?</li> <li>How does the moon change shape over time?</li> <li>How does a leaf insect develop over time?</li> <li>What happens when oil is added to water and then dye is added?</li> </ul>
<p><b><i>INVESTIGATING MODELS</i></b></p> <ul style="list-style-type: none"> <li>Investigations that explore models.</li> </ul>	<ul style="list-style-type: none"> <li>Can you change the shape of plasticine so that it will float?</li> <li>How does cooling take place through insulating materials?</li> <li>Do you use less force to pick up an object with a fixed or moveable pulley system?</li> </ul>
<p><b><i>MAKING THINGS OR DEVELOPING SYSTEMS</i></b></p> <ul style="list-style-type: none"> <li>Investigations that are usually to do with technological systems but involve scientific content.</li> </ul>	<ul style="list-style-type: none"> <li>Can you design a pressure pad switch for a burglar alarm system?</li> <li>How could you make a force measurer using elastic bands?</li> </ul>