

## Ks2 Science investigation ideas

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
2017-18 Year 5& 6	<p><b>Electricity</b></p> <p>*Investigate how light can become brighter or buzzers louder.</p> <p>*Investigate whether the thickness or length of wire changes.</p> <p>*Investigate the effects of changing a different component in a circuit and observing the results. For example the number of cells in a circuit.</p>	<p><b>Properties and changes of materials</b></p> <p>*Investigate/ test materials for a set reason, e.g. windows, flooring, etc.</p> <p>*Investigate dissolvable materials.</p> <p>*Investigate separation by filtering, sieving and evaporation.</p> <p>*Investigate reversible and non-reversible changes.</p>	<p><b>Light</b></p> <p>Investigate light and prisms.</p> <p>Investigate how light travels.</p> <p>Investigate reflective materials.</p> <p>Investigate shadows.</p>	<p><b>Earth and Space</b></p> <p>Sundial investigation</p> <p>What evidence is there to prove that the Earth spins around?</p> <p>Investigate telescopes - Galileo.</p>	<p><b>Living things and their habitats</b></p> <p>Investigate characteristics for classifying living things.</p> <p>Investigate the life process in some plants and animals.</p>	
2017-18 Year3 &4	<p><b>Electricity</b></p> <p>Investigate insulators and conductors</p> <p>Investigate working and non-working circuits.</p>	<p><b>States of Matter</b></p> <p>*Investigate how objects change when they are heated or cooled, etc.</p> <p>*Investigate temperatures when changes take place.</p> <p>Investigate evaporation and condensation</p>	<p><b>Light</b></p> <p>Investigate opaque and translucent and transparent objects.</p> <p>Investigate reflective materials.</p> <p>Investigate shadows</p>	<p><b>Sound</b></p> <p>Investigate vibration using a range of instruments.</p> <p>Sound vibration investigations - rice on a drum.</p> <p>Investigate how different materials can make sounds quieter. Sound proof a stop-clock</p>	<p><b>Plants</b></p> <p>Investigate requirements for life for a plant.</p> <p>Investigate how water is transported in plants.</p>	<p><b>Living things and their habitats</b></p> <p>Investigate what living creatures live near school.</p> <p>Investigate how the environment can affect living things.</p>

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				Investigating pitch - straws/ elastic bands. Investigating sound - water in cups. Investigate how far away you can hear a sound, explore with tape measure and blindfolded person.		
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2018-19 Year 5 & 6	<p><b>Forces</b></p> <p>Bike investigation:</p> <ul style="list-style-type: none"> <li>• Tyres,</li> <li>• Size of wheels,</li> <li>• Length of legs,</li> <li>• Length of crank,</li> <li>• Gears.</li> </ul> <p>Floating and sinking - plasticine boats</p> <p>Parachute investigation:</p> <ul style="list-style-type: none"> <li>• Area of parachute,</li> <li>• Length of string,</li> <li>• Size of mass,</li> <li>• Size of hole,</li> <li>• Shape of parachute,</li> <li>• Number of strings.</li> </ul> <p>Investigate different types of pulley.</p> <p>Investigate levers- where is it best to have the lever and the load? Etc.</p>		<p><b>Animals including humans</b></p> <p>Exercise investigation</p> <p>Investigate how food is transported in animals.</p> <p>Investigate energy in food.</p> <p>Investigate the effect of exercise on heart rate.</p>		<p><b>Evolution and inheritance</b></p> <p>Investigate how they may classify and group themselves.</p> <p>To investigate skulls (including humans and their ancestors), and compare them to a chimpanzee skull.</p> <p>Investigate other fossils and identify similarities and differences with creatures around today. (Pattern seeking).</p>	
2018-19	<p><b>Forces</b></p> <p>Shoes on a surface</p>		<p><b>Animals including humans</b></p> <p>Do people with the longest legs jump the furthest?</p>		<p><b>Rocks</b></p> <p>Investigate characteristics of rocks: Hard-wearing,</p>	

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Year3 &4	Dropping objects in the air - comparing flat piece of paper to scrunched up piece of paper. Magnets: <ul style="list-style-type: none"><li>• magnetic objects,</li><li>• repelling and attracting,</li><li>• strength of magnets</li></ul>	Teeth investigation.	Permeable, Floating and sinking, etc. Investigate how rocks are made - chocolate rocks. Investigate the use of rocks Soil separation investigation Wormery
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