

KS2 Science (Subject Content) - 2 Year Rolling Programme

Personal success for every pupil in a happy, stimulating and caring environment.

Pupils are encouraged to look more closely at the natural and humanly constructed world around them. They are encouraged to ask questions and use different types of scientific enquiry, including observation, noticing patterns, grouping and classification, and simple comparative tests to answer their questions. Pupils are encouraged to use secondary sources of information to research programmes of study.

Pupils begin to use simple scientific language to discuss their findings.

First hand practical experience is supported through appropriate secondary sources, including books, photographs and carefully monitored internet sites.

Pupils read and spell scientific vocabulary at a level which is appropriate to their developing reading and spelling skills across key stage 2.

Medium Term Planning identifies differentiation across year groups.

Year	Autumn	Spring 1.	Spring 2.
A 2017/18 2019/20	<p>Forces and Magnets Y3/4: Compare how things move on different surfaces. Observe the properties of magnets. Group items based on the property of being magnetic or not. Make predictions for the behaviour of magnets.</p> <p>Y5/6: Explain the force of gravity Identify air resistance, water resistance and friction. Recognise that some mechanisms can impact upon the effect of different forces. (e.g. levers, pulleys and gears) Questions</p> <ul style="list-style-type: none"> • Why might people slip when it's wet? • How do etch a sketches work? 	<p>Living Things & their Habitats Y3/4: Explain the life cycle of a plant using technical language to describe the parts and their function. Understand what plants need to grow. Investigate the way in which water is transported within plants. Classify plants and animals in different ways.</p> <p>Y5/6: Explain the life process of reproduction in a plant. Describe the differences in life cycles of different categories of living things (e.g. mammals) Question Can you guarantee the colour of a plant when you plant a seed?</p>	<p>Animals, Including Humans Y3/4: Understand that animals and humans need the correct nutrition to grow. Understand food chains. Identify the function of skeletons. Understand the digestive system. Y5/6: Describe the changes as humans develop to old age. Recognise the living thing produce offspring and how this can vary. Identify how plants and animals adapt and how this may lead to evolution. Question Will humans have changed in 1 000 years?</p>

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Year	Summer 1.	Summer 2
A	Light Y3/4: Recognise that light is needed in order to see things Darkness is the absence of light. Light is reflected Investigate shadows	Sound Y3/4: Identify how sounds are made. Find patterns between pitch, volume and strength of vibrations. Recognise the relationship between distance from the sound source and how faint the sound is.
2017/18		
2019/20	Y5/6: Recognise light travels in straight lines. Use knowledge to explain how objects are seen. Use knowledge to explain shadows. Question How do my eyes adjust to see in the dark?	