

Science at Wigginton- Curriculum Overview

'What is science after all? It is a curious person looking through a keyhole, the keyhole of nature, trying to know what's going on.'

Jacques Yves Cousteau

At Wigginton Primary School, we offer a high-quality science education providing the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. We offer children opportunities to understand the world around us and to develop an enquiring mind. Our science encourages children to ask questions about everyday life and the world around us and to satisfy this curiosity with knowledge.

EYFS

In the EYFS, children explore their scientific enquiry through the *'Knowledge and Understanding of the World'* aspect of the curriculum within their areas of provision. They use what they can see, hear, touch and smell (the senses), to support their understanding of seasonal change, animals and plants in their environment, floating and sinking and materials and their purposes.

Key Stage 1

In Key Stage 1, the children explore working scientifically through different topics such as: everyday materials, seasonal changes, living things (including humans) and their habitats and plants. They explore and strengthen their skills of scientific enquiry by performing simple tests and drawing up simple conclusions.

Key Stage 2

In Key Stage 2, the children build upon the skills they have learnt in Key Stage 1 and increase their understanding of scientific enquiry with more challenging experiments. They develop more in-depth questioning followed by explanations and theories looking at the 'how' and 'why.' They begin to understand that there is still scientific value in a 'failed experiment' or surprising outcomes.

Year 3/4

In year 3 and 4 the children learn about: animals (including humans) and their habitats, sound, states of matter, electricity, forces and magnets, light, rocks and plants. They develop the skills they learn in year 1/2 and begin to create their own investigations and hypothesis

Year 5/6

In year 5 and 6 the children further explore living things (including humans) and their habitats, light, electricity, properties of materials and forces. They also learn about Earth and space, evolution and inheritance, micro-organisms and explore the links between science and design technology.

In order to develop their science skills, the scientific enquiry element of the curriculum is embedded within all the science topics we teach. We also, wherever possible, include cross-curricular links to maths, literacy and the other foundation subjects. Additionally, we have a variety of in-classroom experiments, provision areas and displays:





Science is also promoted through different activities and events throughout the year such as: assemblies, Science Week and school trips and visitors.

Useful websites:

<http://www.bbc.co.uk/bitesize/ks2/science/> lots of games and activities to cover all aspects of the science curriculum

<http://www.tryscience.org/> activities and experiments to try out

<http://discoverykids.com/category/science/> games and information on different aspects of science

<http://www.sciencekids.co.nz/> games, videos and facts

<http://easyscienceforkids.com/> lots more facts and activities

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