

SCIENCE



OUR INTENT

We aim to provide a broad, scientific curriculum that develops scientific vocabulary and empowers children to ask scientific questions – this will enable children to make careful observations and decisions based on justifiable reasons. We ensure various, memorable experiences (including experiments and visitors) take place to broaden the children's knowledge – all learning is accessible for all children regardless of their ability or background. Regular scientific teaching will sometimes be linked to a topic. Children are encouraged to read in science lessons through online and paper research, science encyclopaedias, science papers and books for children to make links across many areas of the curriculum. Maths links are made through science by improving data handling skills as well as being able to develop the recording of scientific experiments. Ultimately, we want children to enjoy learning all areas of science and many topics will be covered on more than one occasion throughout their schooling in order to embed their knowledge.

IMPLEMENTATION

Science is implemented at Kings Road through an online platform that we use for our Science planning and resources. This is known as Developing Experts. Teachers access this with individualised logins and are able to adapt areas to best suit the needs of the children at Kings Road.

IMPACT

At Kings Road, Science is taught for 2 hours on a weekly basis – we expect all children to be actively engaged, using the scientific enquiry skills that relate to specific topics. In EYFS and KS1, children will learn a lot of what happens in science; in Lower KS2 children learn how things happen and by UKS2, children learn why things happen.

In every lesson, 'Rocket Words' are used which relate to each lesson and enables children to deepen their understanding around the topic, and to use those words in scientific explanations.

To show further understanding of topics, children complete an end of unit test based around their knowledge. Practical experiments will take place each half term, which allows the children to develop their skills in experimenting freely, or to carry out a fair test. Children make progress in each topic across every half term and the topics progress through the year groups. Therefore, by the end of Year 6, children should have a wide knowledge of varying areas of the science curriculum and can use this to have a broader understanding of the world.