

SCIENCE

At Crabtree Junior School we aim to provide our children with an enjoyable experience of science, so that they will develop a deep and lasting interest in the subject.

We adapt and extend the new national curriculum to ensure breadth and challenge for all children. Teachers aim to teach science for a minimum of 1 ½ hours per week in Years 3 and 4, and 2 hours per week in Years 5 and 6.

Science offers children an opportunity to develop:

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings.
- Confidence and competence in the full range of practical skills, taking the initiative in, for example, planning and carrying out scientific investigations.
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.
- High levels of originality, imagination or innovation in the application of skills.
- The ability to undertake practical work in a variety of contexts, including fieldwork.
- A passion for science and its application in past, present and future technologies.

The teaching of science offers great opportunities for cross curricular links, group work and discussion.

Children are encouraged to consider the way in which science affects not only them, but the environment in which they live, and beyond.

Examples of Spiritual, Moral, Social and Cultural Education in **Science** include:

- Pupils gaining an insight into the chemical nature of natural changes in the lithosphere, hydrosphere, atmosphere and biosphere
- Pupils debating the ethical issues surrounding current issues such as stem cell cloning to cure diseases
- Learning about the future implications of the use of finite resources and landscape changes
- Learning about theories concerning the creation of the universe and evolution of life with consideration of religious beliefs
- Looking into the future options for the production of electricity, alternative fuels, and methods to reduce pollution with discussion of how these can improve people's lives and the environment in general
- Pupils investigating the historical impact of scientists from around the world in numerous famous discoveries
- Pupils considering how scientific perceptions can alter across the planet; from the phases of the moon, the safety of food additives and the local importance of recycling.