

SCIENCE POLICY

Science represents a way of organising knowledge. It provides a means whereby the individual can organise his or her own knowledge and understanding, classify experience and communicate it to others. At Cheddington, pupils will have the opportunity to make observations, ask questions and investigate the world around them. They will be encouraged to formulate hypotheses, develop systematic investigations and communicate their findings to others. Through their study of biology, chemistry and physics they will recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena; as well as an understanding of how science can be used to explain what is occurring, predict how things will behave and analyse the causes.

Aims

- Ø To stimulate a child's interest in science and provide the opportunities for them to fulfil their potential.
- Ø To develop each child's understanding of scientific knowledge and concepts and their ability to apply them in every day contexts.
- Ø To develop an understanding of the nature, processes and methods of science by encouraging the children to plan and carry out scientific investigations choosing the most appropriate equipment for themselves.
- Ø To enable children to learn about chemistry - materials and their properties.
- Ø To enable children to learn about biology - life processes and living things.
- Ø To enable the children to learn about physics – the physical processes which govern our planet.
- Ø To equip the children with the scientific knowledge required to understand the uses and implications of science today and for the future.

There are key skills involved in the study of Science: to observe, record and investigate; to use scientific vocabulary accurately and precisely. These are developed across the school years by exploring a range of subject content in which the children develop secure knowledge and understanding of key scientific concepts.

The teaching and learning may include:

- Ø Pupils learning to work scientifically through first hand experience.
- Ø Pupils encouraged to question, to propose enquiries, to devise experiments, to communicate their findings.
- Ø Use of ICT.
- Ø The use of different scientific equipment.

Through following the programmes of study pupils will experience increasing confidence, understanding and competence. The scheme of work provides a framework for introducing ideas and skills, opportunities for revisiting ideas and skills previously encountered, in different contexts and at deeper levels.

Within our integrated curriculum, the skills are distinct though the content used may be topic based and link very closely with History and Geography in particular.

Assessment in Science is on-going and is recorded on the skill matrix for knowledge and APP for investigative skills as the children achieve a particular competence.