

MOTTRAM ST. ANDREW PRIMARY ACADEMY



SCIENCE POLICY

Developing Scientific understanding involves both the content of Science (facts, theories, laws, models and concepts) and the methods by which this knowledge is obtained.

Our pupils will learn how empirical evidence is obtained and how our understanding of Science is derived from it. This will help them make sound judgements on Scientific and technological developments.

Aims

To enable our pupils to:

- Develop scientific knowledge and conceptual understanding through biology, chemistry and physics.
- Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.
- Be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Implementation

Science is taught throughout the school in accordance with the requirements of the National Curriculum. Cross-curricular links are made where appropriate. We aim to meet or exceed standards in accordance with National Curriculum expectations.

Children work independently, in groups and as a class as appropriate to the needs of the pupils and the requirements of the topic. Recognising the particular requirements of Working Scientifically we use a practical active approach to developing the children's understanding of Scientific ideas, gathering and presenting evidence and in constructing and testing hypotheses.

All pupils, regardless of race, gender or ability have equal opportunity to develop their science skills, knowledge and understanding.

Care should be taken when using any specialist equipment in Science, and our risk assessment for science is followed.

The Role of the Science Leader

The leader plays an important part in achieving these aims by:

- Leading the writing, implementation, monitoring and evaluation of the policy and curriculum scheme of work.
- Using effective strategies to monitor the quality of education in the subject, including: visiting lessons, scrutiny of children's work, analysing assessment outcomes and talking to the children.
- Keeping up to date with developments in the subject area and disseminating information to staff.
- Organising and leading staff training when needed.
- Identifying resource needs and coordinating the acquisition of new materials.

Special Educational Needs

Support is given by the Class Teacher within the classroom for children requiring reinforcement or extension. Advice may be sought from the leader or the SENCO. Individuals causing concern are discussed with the Headteacher at Target Setting meetings.

Gifted & Talented

It is recognised that children may have a particular gift in the area of Science. Each class teacher will provide such children with the opportunities to develop their skills.

Assessment and reporting

The Programme of Study and Working Scientifically scheme of work is reviewed and monitored using Balance assessment software. Children's attainment and effort is recorded annually through the end of year report.

Professional development and responsibilities

Each class teacher is responsible for planning and assessing the term's work and overseeing the pupil's progress within the framework of this policy and with the guidance of the leadership team. Every teacher is provided with opportunities to take part in Staff Development and Training in order to update their skills and knowledge in line with the school priorities.