



Morton CE Controlled Primary School Science Policy

Rationale

The school has a responsibility to ensure that all children have access to the programmes of study for Key Stages 1 and 2 in the Science National Curriculum and Understanding of the World in the EYFS.

Science stimulates and excites children's curiosity and sense of wonder about events in the world around them. Through science children learn how to carry out systematic investigations which enable them to satisfy this curiosity with knowledge.

We believe science education 'provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.' (The National Curriculum in England Framework Document (DfE) 2014).

Our well-balanced curriculum promotes the spiritual, moral, cultural and physical development of pupils and prepares them for the opportunities, responsibilities and experiences of later life.

Aims

- To promote the teaching of numeracy and literacy within science lessons through cross-curricular links.
- To share good practice within the school.

The National Curriculum in England Framework Document (DfE) 2014 Aims:

- To ensure that all pupils develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.

- To ensure that all pupils 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.
- To ensure that all pupils are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Roles and Responsibility for the Policy

Role of the Headteacher and Senior Leadership Team

The Headteacher and Senior Leadership Team will:

- ensure all school personnel are aware of and comply with this policy
- work closely with the subject leader and the link governor
- ensure compliance with the legal requirements of the National Curriculum and EYFS
- provide leadership and vision in respect of equality
- provide guidance, support and training to all staff
- monitor the effectiveness of this policy by:
 - observing teaching and learning
 - planning a work scrutiny
 - discussions with pupils and members of the school council

Role of the Subject Leader

The Subject Leader will:

- lead the development of this policy throughout the school
- work closely with the Headteacher, the nominated governor and SENCO
- be accountable for standards in this subject area
- monitor standards by:
 - auditing the subject area
 - review of the scheme of work
 - monitoring teachers planning
 - lesson observations
 - scrutinising children's work
 - discussions with pupils
- ensure continuity and progression throughout the school
- devise a subject improvement plan
- provide guidance and support to all staff
- attend appropriate and relevant INSET

- keep up to date with new developments
- undertake an annual audit and stock take of resources
- purchase new resources when required and in preparation for the new academic year
- manage the subject budget effectively
- review and monitor

Role of Teachers

Teachers will:

- comply with all aspects of this policy
- work closely with the subject leader to develop this policy
- devise medium term planning
- develop mathematical fluency, numeracy and mathematical understanding in all subjects
- develop pupils' spoken language, reading, writing and vocabulary in all subjects
- plan differentiated lessons which are interactive, engaging and of a good pace
- have high expectations for all children and will provide work that will extend them
- assess, record and report on the development, progress and attainment of pupils
- achieve high standards
- celebrate the success of pupils in lessons

Teaching and Learning

We use a variety of teaching and learning styles in order to develop children's knowledge, skills and understanding. Teachers produce medium term plans on the topics outlined on the Curriculum map. Teachers ensure ICT/ computing opportunities are provided to promote, enhance and support the teaching of this subject area. Where possible, cross-curricular links with other subjects will be outlined in the medium term planning.

Inclusion, including Special Educational Needs

Activities are planned and differentiated to encourage full and active participation by all children irrespective of gender, ability, ethnicity, language, religion or cultural background. All topics are taught with sensitivity to religious beliefs. We believe we have a duty to ensure that all children have equal rights to the opportunities offered by education and that all children will be encouraged to fulfil their potential in their academic, physical and creative

achievements. We recognise that within the school we have more able, gifted and talented children. Activities are planned and differentiated to suit the needs of these learners.

Assessment for Learning

Teachers will:

- carry out continuous assessment
- use short-term assessments matched to the Learning Intention to adjust their planning
- make comments in pupil's books related to the Learning Intention
- administer national tests and assessment in line with school policy

Monitoring Science

Monitoring of standards of children's work and the quality of teaching is the responsibility of the subject coordinator supported by the Headteacher and the SLT.

Standards in science will be monitored by:

- scrutiny of pupils' work
- subject observations
- pupil discussions
- audit of subject
- scrutiny of planning
- general curriculum discussions

Resources

The school has a full range of resources to support the teaching of science throughout all year groups. Resources are upgraded and replenished when the need arises. Staff are responsible for collecting and returning all equipment. Staff should report losses, breakages or new requirements to the subject leader in order for resources to be maintained. An annual stock take and audit is undertaken by the subject coordinator.

Policy review

This policy will be reviewed by the subject leader, Headteacher, staff and governors in July 2017