

Ampney Crucis C of E (VA) School **Science Policy**

Science is a body of knowledge built up through experimental testing of ideas. It is also a practical way of finding reliable answers to questions we may ask about the world around us. Science in our school provides opportunities for pupils to develop their knowledge and understanding of the world in which they live both through practical experience and from other sources of information.

We believe that a broad and balanced science education is the entitlement of all children, regardless of ethnic origin, gender, class, aptitude or disability.

Aims

- Prepare our pupils for life in an increasingly scientific and technological world.
- Foster concern about, and actively care for, our environment.
- Help develop and extend our children's scientific concept of their world.
- Develop scientific knowledge and conceptual understanding through the science curriculum 2014
- Develop understanding of the nature, processes and methods of science through different types of scientific enquiries that help our pupils answer scientific questions about the world around them.
- Equip pupils with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Attitudes

- Encourage the development of positive attitudes to science.

- Build on our children's natural curiosity and help them to develop a scientific approach to problems.
- Encourage open-mindedness, self-assessment, perseverance and responsibility.
- Build our pupils' self-confidence to enable them to work independently.
- Develop our pupils' social skills to work collaboratively with others.

Skills

- Give our children an understanding of scientific processes.
- Help our children to acquire practical scientific skills.
- Develop the skills of investigation - including observing, describing and comparing, measuring, predicting, hypothesising, experimenting, communicating, questioning, interpreting, explaining and evaluating.
- Develop the use of scientific language, recording and techniques.
- Develop the use of computing in investigating and recording.
- Enable our children to become effective communicators of scientific ideas, facts and data.

Teaching and Learning

Science teaching in the school is about excellence and enjoyment. Planning for science is a process in which all teachers are involved to ensure that the school gives full coverage of National Curriculum Science and including Reception. Each unit is developed and built on as the children progress through the school, ensuring good coverage of each programme of study and progression within each. Scientific Knowledge, Conceptual understanding and Scientific Enquiry are incorporated within the units of work. Children will develop their range of scientific vocabulary. Science will be taught to the whole class with opportunities to carry out investigative work in small groups.

Enrichment Activities

Wherever possible, the teaching and learning of science is enhanced by educational visits using the local area as a resource or visitors to the school.

Safety

It is important that children are taught the rule of safety in science from a young age so that it becomes integral to their experiments and investigations. Materials and equipment need to be treated with respect and care and we endeavour to make sure all children do this.

Equal Opportunities

Science is planned in line with the school's policies on safeguarding, SEND, Equal Opportunities, Health and Safety.

Use of ICT

We use ICT in science. Children are given the opportunity to practise science skills and enhance their presentation. ICT equipment, including iPads and cameras, can be used for enquiry work.

Links with other subjects

In our topic-based teaching approach, we use cross-curricular links to science wherever we can. Science relates especially well to curriculum subjects such as literacy, mathematics, ICT and design and technology.

Assessment and record keeping

At Early Years Foundation Stage assessment is through the EYFS

At Key Stage 1 and 2 each topic begins with assessment of children's knowledge through elicitation. At the end of a topic children's learning is assessed through elicitation or an assessment activity.

In addition to this each year two pieces of work are marked and moderated by the class teachers and passed to the Science coordinator.

Reporting

Reporting to parents occurs twice a year at parents' evening and a written report in the summer term.

Monitoring of Science

The Science Coordinator is responsible for monitoring policy and scheme of work implementation. The Science Coordinator will:

- Collect samples of teaching plans for Science.
- Observe science lessons when and as appropriate.
- Discuss Science with visiting Governors and staff.
- Report to the Governors on Science at School once a year.
- Analyse evidence of children's achievement (teacher assessment and SATs) relative targets set, and discuss implications with the staff.

Head Teacher _____ Date _____

Science Coordinator _____ Date _____

Agreed at a full Governor's Meeting on _____

Chair's signature _____

The policy will be reviewed spring term of 2019