

All Saints CE Primary School

SCIENCE POLICY

Philosophy

Science is an area of experience which fosters and develops a specific way of thinking and acting. As part of the general education of the individual it should develop a basic understanding of scientific ideas, an appreciation of the inter-relationships between science and society and an ability to communicate with others.

Learning opportunities will follow and build upon the National Curriculum guidelines. We follow the QCA scheme of work and also use LCP to supplement our planning and teaching. (see appendix for QCA and overview of broad curriculum for KS1 and KS2). We strive to help pupils gain knowledge, skills and understanding in the following areas.

Experimental and investigative science.

Life processes and living things.

Materials and their properties.

Physical processes.

Aims

- Schemes of work are planned to enable pupils to develop knowledge and concepts through a broad range of experiences.
- Pupils will be taught in ways appropriate to their abilities and in contexts suitable for their age.
- Special needs will be taken into account and integrated into planning by individual teachers.
- Science will naturally draw from and contribute towards other areas of the curriculum. Science teaching will be made relevant by building on pupil's own experience and using contexts from the local environment and the wider world.
- We will endeavour to ensure a broad and balanced curriculum for all our pupils and wherever possible, opportunities will be provided to develop skill and gain understanding of scientific concepts. This will be fostered through first hand experience in a climate which encourages curiosity, perseverance, open-mindedness, critical reflection and co-operation.
- We will employ a range of teaching methods including whole class teaching, experiential learning, discovery methods, problem solving and open-ended investigation.
- Particular attention will be given to planning the science curriculum to make it equally relevant to all children, regardless of race, creed, gender or ability.

Objectives

- Plan experimental work.
- Recognise the need for fair tests and make predictions.
- Select appropriate equipment to use.
- Make observations and measurements.

- Present results clearly, using tables and charts.
- Draw conclusions and explain and communicate findings.

And, specifically drawn from the KS2 Programmes of Study:-

- Demonstrate knowledge and understanding of aspects of life processes and living things.
- Demonstrate knowledge and understanding of aspects of materials and their properties.
- Demonstrate knowledge and understanding of aspects of physical processes.
- Review and assess work in line with BLP objectives currently being developed in school.

Assessment

Science is regularly assessed against set objectives for each unit of work, and findings are recorded on a standard proforma. Pupils work is marked thoroughly and some pieces of work are annotated against learning objectives, to provide an ongoing insight into individual progress, which children themselves become increasingly involved in as they progress through school. It is intended that the assessment process be refined and developed in line with whole school development using a software package. (See Action Plan/Curriculum Evaluation for Science)

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