Science Policy

OVERVIEW

This policy is set within the context of the School Mission Statement:

"I come that they may have life and have life to the full"

John 10:10

"A high-quality 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."

National Curriculum, 2014

This policy is a statement of the aims, principles and strategies for implementing Art, Craft & Design throughout the whole of Holy Rosary School. Through this, we will nurture children's spiritual, moral and social development within our Catholic ethos. The policy will be reviewed in line with the priorities set in the school development plan.

OBJECTIVES

1. To stimulate pupils' interests and help develop a sense of curiosity and to develop an understanding of the world.
2. To enable pupils to learn about famous scientists and their impact on our lives.
3. To develop **scientific knowledge and conceptual understanding** through the specific disciplines of biology, chemistry and physics
4. To 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.
5. To ensure all pupils are equipped with the scientific knowledge required to understand the **uses and implications** of Science, today and for the future.

STRATEGIES

1. We use a yearly subject based plan which details the themes to be taught. These also detail the key/sticky knowledge linked to the aims of the National Curriculum. The scheme of work is designed so that children are increasingly challenged as they move through the school.
2. We will begin the teaching of Science in Foundation Stage as the children begin developing their knowledge skills and understanding of the world through exploration and curiosity.
3. An appropriate range of teaching and learning strategies will be used in all Science lessons to capture pupils' interest and to promote effective learning and progress.
4. Pupils will be encouraged to; ask questions, solve problems, discover new information, apply and consolidate their knowledge, skills and understanding through first-hand experience, investigations and practical work.
5. Teachers will make use of the immediate and wider environment to help pupils apply their scientific knowledge skills and understanding to see the relevance of Science to their own lives. They will set challenging work, tasks and problems to increase pupil's knowledge, skills and understanding, to extend their thinking and build their self-confidence.

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6. Teachers will assess pupil's work in Science through formative and summative judgements: by asking questions; observing learners during lessons; observing pupils solving practical problems and listening to pupils' discussions. Work will be assessed regularly and frequently and pupils will be given appropriate, clear feedback which tells them how well they have done and what they need to do next to improve.
7. The Science leader will support the teaching and learning of Science by: providing strategic leadership and direction; monitoring progress and standards across the school; reviewing and revising the Science policy; monitoring and supporting teachers in the teaching of science; keeping staff up to date on new developments in Science; monitoring the effectiveness of the planning and development of Science; auditing and monitoring the effective and appropriate use of resources and obtaining new resources.

OUTCOMES

During their time at Holy Rosary children will benefit from a rich broad and balanced programme of art and design. They will experience and experiment with a wide range of materials as they explore art and design to grow and flourish as artists and designers. They will build a growing awareness of the art and design which runs through their own history, culture and other cultures as they are introduced to the world of artists and works of art. They will learn about many sculptors, designers and architects and will learn to appreciate great works of art.

This policy will ensure that all pupils become confident scientists. Effective teaching will ensure that they can solve problems by applying their knowledge, understanding and skills in Science with increasing sophistication. This policy should be read in conjunction with other key policies including; assessment, teaching and learning, special needs, equal opportunities and deployment of support staff.

DATA PROTECTION STATEMENT

The procedures and practice created by this policy have been reviewed in the light of our Data Protection Policy. All data will be handled in accordance with the school's Data Protection Policy. As such, our assessment is this policy.

Data Audit For Policy					
What?	Probable Content	Why?	Who?	Where?	When?
Science books	Name and class at the front of book	Identification of work and assessment	Teachers	In the classroom	During school time
Science assessment	Name and age related statements	Assessment of ability and tracking	Teachers	Insight	Held on file during the child's time at school.

As such, our assessment is that this policy:

Has Few / No Data Compliance Requirements	Has A Moderate Level of Data Compliance Requirements	Has a High Level of Data Compliance Requirements
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Revised and adopted by the Governing Body on: 30th November 2022

Signed: P. Devine

Date to be reviewed: 30th November 2024