

Winmarleigh Church of England Primary School



Enjoy - Believe -

Achieve

Science Policy

Overview

When children leave our school, we want them to be able to go on to their chosen High School with certain characteristics. We want them to be kind, understanding, patient and caring and always ready to learn. In order to achieve this, our school will deliver a curriculum which ensures that children are given opportunities to:

1. Develop their knowledge and understanding of the National Curriculum subjects, and achieve their full potential
2. Collaborate with others confidently and respectfully in a variety of different ways
3. Be fully prepared for the next stage of their education and life in modern Britain
4. Develop their experiences of diversity and how this benefits our local and national communities

Developing and increasing pupils' understanding and enjoyment of Science is core to our curriculum. This policy will put into place the provisions for Science, which are set out in the National Curriculum 2014.

Intent

1. To provide the foundation for understanding the world through biology, chemistry and physics.
2. To give children the knowledge that science is all around us, and affects our lives in many ways.
3. To ensure children have a secure understanding of the knowledge, methods, processes and uses of science.
4. To encourage pupils to recognise the power of rational explanation.
5. To encourage in pupils a sense of excitement and curiosity about natural phenomena.
6. To help children to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Implementation

1. 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.
2. Teachers will use the schemes of work and guidelines, supported by an appropriate range of teaching and learning resources, to develop the knowledge, skills and understanding of every child, ensuring that all pupils, including those with SEND, achieve high standards for their ability and make appropriate progress.

3. Teachers will follow health and safety guidelines and where appropriate, carry out risk assessments to ensure activities are safe and appropriate for all pupils.

4. In each unit, teachers will plan the following sequence of work: teacher lead launch to engage the children's curiosity (the children's existing knowledge is assessed and the children are encouraged to raise their own questions); children research and explore through observations and first hand experiences, and are introduced to new concepts and learning; children carry out a focused investigation (the proportion that is teacher and child led will vary depending on the unit and age and ability of the children); the children apply their learning by reporting to a real audience (where appropriate).

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 children's knowledge, skills and understanding, to extend their thinking and build their self - confidence.

6. Teachers will assess children'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 marked regularly and frequently and pupils will be given and will respond to 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, monitoring the effective and appropriate use of resources and obtaining new resources.

Impact

This policy will ensure that all pupils become confident scientists and can work scientifically when exploring scientific enquiries. They will be able to apply a wide range of skills to develop their knowledge of scientific ideas and will be able to present their knowledge and findings to different audiences. They will be able to apply scientific vocabulary to explain and describe phenomena.

Revised and adopted by the Governing Body - Date: March 2023

Review date: March 2024