

Assessment

Teachers regularly assess children's progress within Science. Children receive regular feedback on their work and support from teachers to reach their next steps. Teachers also assess learning that has taken place over time and collect data, which describes children's achievement in relation to curriculum expectations. This informs future planning.

Data

Teacher's assess children's progress over time by collecting data on their attainment across the year. Teachers will be able to explain the progress that has been made and talk about their plans for future teaching.

Marking and feedback

Children will receive effective marking and feedback throughout scientific blocks of content. Learning Objectives will be shared at the start of the lesson with the children. The Learning Objective is broad to allow children to access the learning at their level. Teachers understand the importance of differentiated feedback to allow children to embed and understand the scientific knowledge focus.

Books

Children will have a variety of evidence in their books, including investigation, data collection, exploration, rational explanation, and practical experiments as well as examples of the scientific knowledge they have learnt.

Opportunities for Reading, Writing and Maths

Children need to apply their mathematical knowledge to their understanding of science, including collecting, presenting, and analysing data.

Reading is at the heart of the curriculum and children read a range of texts to develop their scientific understanding.

Teachers plan writing opportunities in Science so that children can apply their writing skills and demonstrate their Science learning.

AFL

Before beginning a topic, teachers actively seek children's prior knowledge. This is done through a range of different activities.

Teacher's build on children's prior knowledge through the progression of scientific vocabulary.

Knowledge

Teaching is built upon key knowledge that children need to learn in each key unit. The curriculum is planned so that the knowledge in each unit is built upon existing learning and enables children to make connections in Science.

Skills

The curriculum is built upon Scientific Enquiry. Each key unit focuses on teaching and practicing specific scientific skills. Skills are planned progressively to enable pupils to become independent, confident scientists who can plan and investigate their own line of enquiry and collect, present and interpret their findings.

Spirituality and diversity

Diversity is at the forefront of our curriculum and children learn to respect everyone for who they are. In Science, children learn about diverse individuals who have made contributions to the world of Science by studying an influential scientist each half term.



St Michael's C.E. Primary School

Progress

Plans

Science

Books

Teaching

Teaching

At St Michael's the teaching of Science is focused on Scientific Enquiry. Lessons are practical and encourage children to explore and investigate different lines of enquiry.

Developing the understanding of the nature, processes and methods of science enquiries encourage our children to answer scientific questions about the world around them. We equip our children with the scientific knowledge required to understand the uses and implications of science, today and for the future.

Big Question

During each key unit, children explore an engaging, challenging 'Big Question'. Teachers focus on the importance of the knowledge and skills children need to answer the Big Question. The 'Big Question' ensures that curiosity of scientific exploration is a priority of teaching and learning. Each key unit ends with children answering the 'Big Question' and showing their understanding through written responses and quizzes.

National Curriculum

At St Michael's, our Science curriculum follows the National Curriculum. We use a range of high-quality resources to deliver and plan exciting Science lessons.

Science is the intellectual and practical activity encompassing the systematic study of the structure and behaviour of the physical and natural world through observation and experiment.

Biology - is the Science of life and living organisms.

Chemistry - is a branch of science that studies what everything is made of and how it works.

Physics - is a branch of science that helps us understand how objects, forces and energy all interact.

Intent - At St Michael's, science promotes and implements a range of knowledge, skills and understanding of nature, processes, and methods of scientific enquiry. We challenge all pupils to question their ideas and create a safe and fair environment to encourage this.

A scientist works accurately and precisely. They are curious and ask questions to explore and test predictions and theories.