

Science Policy

Aims of policy:

- All children develop clear scientific knowledge and understanding across the range of disciplines of biology, chemistry and physics
- Develop understanding of the nature, processes and methods of scientific enquiry that help them to answer questions about the world around them
- Pupils are equipped with the skills required to understand the application and impact of science in the world, today and for the future.

Intent:

Through the teaching of science, we intend for our pupils to be curious about the world and to understand how science affects much around them. Key skills are mapped for each year group and are progressive throughout the school building on prior learning. The children will develop skills and knowledge that has been identified within each unit and across each year group. The curriculum is designed to ensure that children are able to acquire key scientific knowledge through practical experiences; using equipment, conducting experiments, building arguments and explaining concepts confidently. Children are encouraged to ask questions and be curious about their surroundings and a love of science is nurtured through a whole school ethos and a varied science curriculum.

Implementation:

The teaching of science in St Michael's Federation:

- Is taught in planned and arranged units to allow for prior learning to be built on and include problem solving opportunities. As the children's knowledge and understanding increases, they become more proficient in selecting, using scientific equipment, collating and interpreting results; they become increasingly confident in their growing ability to come to conclusions based on real evidence.
- Ensures that skills are systematically developed throughout the children's school career as working scientifically skills are embedded into lessons and new vocabulary and challenging concepts are introduced through direct teaching.
- Teachers demonstrate how to use scientific equipment, and the various working scientifically skills in order to embed understanding.
- Children are offered a range of extra-curricular activities, including trips and visitors, to complement and broaden the curriculum.
- Events, such as STEM Week or project days, allow for broader provision and the application of knowledge and skills.

Impact:

We will monitor and measure the impact through:

- Assessment Drops
- Pupil Conferencing
- Book Scrutiny
- Lesson monitoring



Growing to be the best that we can be for God, Ourselves and Each Other
Thessalonians 5:11: Therefore encourage one another and build one another up, just as you are doing.

- Review of teacher expertise and subject knowledge

The monitoring of science teaching and pupil progress is the shared responsibility of teachers, the subject leader and the senior leadership team as well as the governing body. The work of the subject leader includes supporting colleagues in the teaching of science, keeping up to date with current developments as well as providing a strategic lead and direction for the subject.