

Science Curriculum

Intent

- To create a positive approach across school towards science
- To provide all children with the opportunity to learn and explore the world around them as scientists.
- To deliver a curriculum which ensures the full coverage of the National Curriculum developing children's knowledge and skills,
- To develop relevant scientific skills which can be applied to investigations within lessons.
- To continue build their knowledge and skills as they move up the school.
- To create a love of learning and a hunger to explore more.
- To provide children with opportunities to enhance their learning through trips and meeting scientists.
- To give children the opportunity to understand how science/STEM can be used in the wider world.

Implementation

- Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science.
- Teachers creating engaging lessons, often involving high-quality resources to aid understanding of conceptual knowledge.
- Teachers using both indoor and outdoor spaces available within school to aid learning.
- Teachers use precise questioning in class to test conceptual knowledge and skills, and assess children regularly to identify those children with gaps in learning, so that all children have an understanding of what they are learning.
- Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers.
- Giving children the opportunity to learn scientific skills and apply them to investigations.
- Teaching children a balance between skills and scientific knowledge, using a range of activities and methods.
- Extra-curricular learning opportunities through homework, STEM club newsletter and lunchtime STEM club.
- Trips organised to enhance learning: examples include Bring it On STEM conference and Great North Museum.
- Understanding how Science is used in the wider world: examples include STEM jobs fair, dentist and doctor visits.

Impact

- Children take part in fun, engaging, high-quality lessons that support their learning and are equipped to move forward in their learning within school.
- Children have a greater understanding of how science affects the world around them.
- Children have a greater understanding of how science is used in the wider world.
- All children acquire the relevant science knowledge which they understand and can apply.
- All children will leave St Mary's with an understanding of how the world works from a scientific point of view and are equipped with scientific skills.
- A love of science is embedded from an early age.
- Children see themselves as scientists.