

SCIENCE CURRICULUM GUIDANCE

“The scientist is not a person who gives the right answers, he is one who asks the right questions.”

Claude Levi-Strauss – French philosopher and anthropologist

Science Intent

At St. Andrew's Primary School, science is a stimulating platform which seeks to promote children's curiosity about the knowledge, processes, methods and uses of the subject in the wider world. We believe that a high-quality science education utilises a knowledge-building approach teamed with broad and balanced opportunities for disciplinary skills through practical scientific enquiry.



“Science is the acceptance of what works and the rejection of what does not. That needs more courage than we might think.”

Jacob Bronowski – British mathematician and historian, best known for his humanistic approach to science

Science Implementation

The National Curriculum 2014 and planning from the Lighthouse Schools Partnership form the basis of our science curriculum. Children are given a knowledge organiser at the start of each block of learning which details the key facts and vocabulary.

We begin by checking what the children already know about their area of learning. For each area of science, we introduce a real-world contemporary scientist and the “giant” scientist on whose shoulders they stand. We refer to the knowledge organiser throughout the project to ensure that key vocabulary and knowledge is remembered and understood. Each lesson, any common misconceptions are addressed to secure understanding.

Children enjoy a variety of activities, including experiments and practical work. The children can identify which “Working Scientifically” skills they are using when completing investigations. Children will be able to build on prior knowledge and link ideas together to move their learning forward.



“Failure is the opportunity to try again more intelligently.”

Henry Ford – American industrialist and inventor

Science Impact

Throughout their learning journey at St. Andrew’s, children make strong links between scientific concepts and the necessary skills to work scientifically.

Throughout each lesson, formative assessment takes place and verbal feedback is given to the children in the next lesson to consolidate understanding. The children will retain their knowledge and be able to explain the processes they have taken and be able to reason scientifically.

The teaching of science is also monitored through moderation, book scrutinies, learning walks, lesson observations and pupil voice discussions. The science leader also attends Primary STEM Network events to maintain rigid policies and practices at St Andrew's whilst exploring valuable opportunities to enhance provision wherever possible as a result of continual developments and reforms in the subject.

The wider impact of science is evident in the children's genuine enthusiasm to engage with the subject. Through their participation in lessons, workshops and trips, children understand the legacy that science has left and that it is vital to the world's future prosperity.