

Science at Southover School

Intent

At Southover Primary School, our children shout about science!

We want to foster an understanding of the role science plays in the real world we live in. We want children to learn about the pursuits of a diverse range of scientists and inventors and develop their understanding of how major scientific ideas have played a vital role in society. We embrace the expertise of STEM (Science, Technology, Engineering and Maths) ambassadors and also recognise the valuable contributions that those in the wider school community can make to the delivery of an engaging science curriculum. We aim to enable our pupils to be motivated by and understand real world applications of science by experiencing hands-on activities that innovate, and inspire.

In addition, we will hold an annual STEM week which brings together expertise from the wider school community and beyond. This inspirational week inspires and engages pupils with shows, talks and a wealth of experiments, investigations and challenges. It celebrates STEM and brings learning and career opportunities to life.

We will deliver a curriculum that:

- Builds upon prior knowledge and a progression of skills to ensure all children have a secure understanding and knowledge of key science concepts
- Develops creativity and challenges all of our learners through inclusive teaching practice
- Inspires and excites our children through engaging practical sessions which are enriched with visits and visitors
- Will develop aspirational learners with an awareness of the key role that science plays within our community and the world and the opportunities that this creates for future careers
- Teaches about a diverse range of scientists and inventors, ensuring cultural representation within the science curriculum
- Encourages our children to be self-motivated, independent, curious and resilient learners by developing inquiry based skills and sessions
- Encompasses outdoor learning to create meaningful experiences within their natural environment

Implementation

The curriculum is led and overseen by the science curriculum leader, who will regularly monitor, evaluate and review science teaching and learning, celebrating and sharing good practice. Formative assessment will be integrated into everyday science teaching to ensure teachers have an in-depth knowledge of the children's learning and inform their next steps. We value our pupils' practical, oral and scientific thinking – rather than written work

The National Curriculum 2014 and the Early Years Foundation Stage statutory framework 2017 provide the basis for our science curriculum, which is then tailored to meet the learning and developmental needs of the children in our school.

Teachers will plan science using progression of skills document which will allow children to build upon prior knowledge and understanding. This document will also outline the Working Scientifically skills, which teachers will use to plan enquiry-based lessons which will support children's journeys to become independent and resilient learners.

The teaching, learning and sequencing of science will follow a blocked curriculum approach which has been implemented to ensure coverage and progression in all subject areas. Science will be taught discretely on a weekly basis. In addition, we will hold our extremely popular STEM week in

We map out the knowledge, vocabulary and skills needed to master the concepts as well as including suggestions for links to outdoor learning and enquiry-based sessions.

Impact

- Children will become resilient, independent and curious scientists who ask questions and find things out for themselves.
- Science will be a high profile subject throughout the school.
- Children will be enthusiastic and motivated scientific learners.
- The outdoor classroom will be utilised regularly throughout science lessons.
- Parents, the wider community and STEM ambassadors will support science learning
- Children will have an awareness of the full range of scientific careers and pathways available to them and will be keen to pursue STEM subjects at secondary school.