



Science

Intent

At Burghclere Primary School, our vision is to give children a science curriculum which enables them to explore and discover the world around them, confidently, so that they have a deeper understanding of the world we live in. We realise that young children are naturally curious and passionate about learning; we provide a stimulating science curriculum that nurtures children's natural curiosity and their on-going intellectual development. Through a hands-on, enquiry-based curriculum, children will experience the joy of having wonderful ideas, exploration and investigation - that is, the joy of finding out about the world. Our aim is that these stimulating and challenging experiences help children secure and extend their scientific knowledge and vocabulary. We believe that these opportunities will ensure that our children are confident, life-long learners who will explore the world around them.

Implementation

The school teaches the National Curriculum for Science. It uses the White Rose science scheme of work which has clear progression in knowledge and skills and uses a range of science vocabulary which builds year on year, as the basis for its planning. There are two core parts to the teaching and learning of science: science knowledge and science skills. The knowledge builds and extends previous knowledge and is split into different topics which are covered in separate units of work. The skills of working scientifically are split into eight key areas: • Ask questions • Plan • Make observations • Take measurements • Gather, record and classify data • Present findings • Answer questions and make conclusions • Evaluate (KS2 only) These skills are taught in each unit of work and build on previous years.

In EYFS science is taught through the prime area of learning Communication and Language, and the specific area Understanding the World. This may be taught through: Exploring the natural world around them; Noticing and learning about the different seasons; Drawing plants and animals; Exploring how things work; Predicting what might happen next; Learning about life cycles; Setting up science activities in continuous and enhanced provision e.g. floating and sinking activity, magnets etc; Sharing stories and non-fiction books about the weather / people and bodies; Recording data e.g. pictures, numbers, tally lines.

In KS1 science units for Year 1 and Year 2 have been grouped together, as our children needed the base knowledge covered in Year 1 to lead into Year 2. In KS2 units are taught on a two year cycle.

Children will record their science work in books.

Science knowledge and skills will be assessed using the White Rose Assessment materials.

Impact

The school will measure the impact of the science curriculum through:

- The number of children meeting key objectives each year (see White Rose science assessment guidance)
- The children's ability to recall subject knowledge and demonstrate scientific skills (learning walks and pupil discussions)
- The children's engagement and enthusiasm in science activities (learning walks and through pupil discussions)

Curriculum Overview

The full curriculum map can be found here:

https://assets.whiteroseeducation.com/Resources/science/Curriculum%20mapping%20document.pdf?_gl=1*1r6bobt*_gcl_au*NDYzODM3MzQ2LjE3MjgyMzUxNzcuMTA2MzA4ODcxLjE3MzAzOTY5NDIuMTczMDM5Njk0MQ..*_ga*MTAwNTYyNzgwMi4xNzA2ODExNzE4*_ga_869Y76J73T*MTczMDM5NjkzNC4zLjEuMTczMDM5NzAzMS40MS4wLjA

Vocabulary progression can be found here:

https://assets.whiteroseeducation.com/Resources/science/Vocabulary%20progression%20document.pdf?_gl=1*1qaumm8*_gcl_au*NDYzODM3MzQ2LjE3MjgyMzUxNzcuMTA2MzA4ODcxLjE3MzAzOTY5NDIuMTczMDM5Njk0MQ..*_ga*MTAwNTYyNzgwMi4xNzA2ODExNzE4*_ga_869Y76J73T*MTczMDM5NjkzNC4zLjEuMTczMDM5NzAzMS40MS4wLjA