



We are all part of God's family. Through trying our best in all we do, we find a sense of belonging.

*1 Corinthians 12:27 'All of you together are Christ's body and each of you is a part of it'*

At Horndon on the Hill Church of England Primary our high-quality science curriculum ensures that knowledge is carefully sequenced to enable the relationship between substantive and disciplinary knowledge. This ensures that pupils not only know 'the science'; they also know the evidence for it and can use this knowledge to work scientifically. Expertise in science requires pupils to build at least 2 forms of knowledge, the first is 'substantive' knowledge, which is knowledge of the products of science, such as models, laws and theories. The second category is 'disciplinary knowledge', which is knowledge of the practices of science. This teaches pupils how scientific knowledge becomes established and gets revised. Importantly, this involves pupils learning about the many different types of scientific enquiry. The purpose of science is to stimulate and develop pupil's curiosity and knowledge of scientific ideas so that they can research and to test their ideas in a scientific way in order to build their knowledge of plants, animals, human beings; habitats, light, sound, the earth and beyond, seasonal changes, forces and magnets, electricity, everyday materials and states of matter.

Intent:

- We intend to provide a stimulating, engaging and challenging science curriculum
- For children to develop a range of skills to work scientifically and to learn a broad vocabulary to describe their work
- Increase pupils' knowledge and understanding of our world
- 'Working Scientifically' skills are built on and developed Implement:
- Science is taught through a topic-based approach
- Ensure every child can access a differentiated curriculum
- Prior to new learning, previous knowledge and understanding is assessed
- Understanding of key skills is developed through teacher modelling and planned questioning
- Offer trips, visitors and science days to enhance the children's learning experience

Impact:

- Children achieve well in science
- Children enjoy science
- Children use a range of scientific vocabulary to explain their learning
- Children can work scientifically using practical resources