



Being the best we can be; committed to making a difference
EXPERIMENT. REFINE. LEARN. REPEAT.

INTENT - Purpose of Study

Science teaching at West Berry Federation builds upon children's natural curiosity and sense of wonder about the world around them. Science learning is designed to engage children, with scientific enquiry, scientific working and practical activities embedded at the heart of it. Subject specific vocabulary is systematically taught and modelled so that children can question, discuss, explain and clarify their thinking in science. Children are introduced to the concept of sustainability and given opportunities to consider their impact on the planet. Our federation aims to give every child the opportunity to foster an enthusiasm for science, gain an understanding of its importance in caring for the world in which we live and interpret science to explain the world around them.

Implementation

Our science curriculum follows the progression of knowledge and skills set out in the National Curriculum using White Rose Science as our scheme. As we have mixed year groups, we use a Year A and Year B format whereby we follow an individual year group of White Rose Science each year. White Rose Science lessons are designed to be 'hands-on, heads-on'. Scientific tasks are relevant and inspiring for children with practical activities for every small step. Lessons begin with a retrieval flashback activity; where children have an opportunity to revisit previous learning. White Rose assessments are completed at the end of each topic.

Key scientific vocabulary is displayed, modelled and used so that children understand and apply it readily in their spoken and written work.

Children learn the possibilities for careers in science, they will see the relevance of what they learn in science lessons to real-life situations and the importance of science in the real world within our 'Broadening Horizons' event in Upper Key Stage 2. White Rose sustainability blocks are used to foster children's understanding of current issues related to sustainability and climate change. These provide a real-life, relevant context to their learning. These specialised blocks offer children a valuable opportunity to recognise their role in shaping a more sustainable future. They also aim to deepen children's understanding of how they can actively contribute to positive changes in both their local and wider environments.

Impact

West Berry Federation scientists experience an engaging and exciting hands-on approach to this subject. Our long term goal is to create enthusiastic scientists, who will develop a love of science work, an interest to further study and work in this field.

Progress is measured through a child's ability to know more, remember more and explain more using White Rose Assessments and through teacher questioning. Children articulate their understanding of scientific concepts and are able to reason scientifically using subject specific vocabulary, challenging peers and building upon their ideas.

Children become increasingly independent in science; completing investigations and working collaboratively.