

Science Policy



Pendragon Community Primary School

Lead person: Subject Lead

Reviewed: March 2022

Ratified by Governors: 14 March 2022

Next Review Due: Autumn 2023

Science Policy

Intent

At Pendragon Primary School, the curriculum is designed to recognise children's prior learning, provide first hand learning experiences, allow the children to develop interpersonal skills, build resilience and become creative, critical thinkers. Our curriculum embraces the community in which it is situated, recognising local history, heritage, geographical and business links and most importantly, the aspirations of all our children.

P144 of The National Curriculum 2014 sets out the 'Purpose of study' and the following aims relating to science:

(<https://www.gov.uk/government/publications/national-curriculum-in-england-science-programmes-of-study/national-curriculum-in-england-science-programmes-of-study>)

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future

Our curriculum in Early Years ensures children learn through rich, practical opportunities linked to all seven aspects of the framework and are underpinned by the three effective characteristics of teaching and learning.

Throughout the teaching of Science we also endeavour to meet the overarching aims of the school (REACH).

Implementation

- The National Curriculum 2014 sets out the core content to be delivered through the teaching of science
- The curriculum is organised around 6 Big Questions and threshold concepts – the big ideas in each subject. The 6 Big Questions foster an investigative approach to learning, embracing active learning and problem-solving. The threshold concepts come up time and time again in many topics and help the children to assimilate new information into growing schema.
- Pendragon Primary School's long term curriculum plan for science gives an overview of science coverage from Early Years to Year 6. Teachers use this as the basis for medium and short term planning.

- We endeavour to ensure learning in science is an engaging, creative and meaningful experience for all children. Links are made between subjects and enrichment activities, such as trips, visitors, special days and weeks are regularly planned as part of our cultural guarantee.
- Discrete science lessons are taught regularly or as blocked units of work relating to a particular 'Big Question'. The application of skills and knowledge learned in one subject to a new context or a different subject are encouraged.

Impact

Through well-thought out curriculum design, our pupils acquire a deep body of learning over time. Opportunities to make interconnected links to prior learning and regular retrieval practice enable them to build up a bank of skills and knowledge and showcase their understanding. The impact of the curriculum is evident in the curriculum products that the children produce. These products not only showcase their learning but provide opportunities to apply that learning in more complex or abstract contexts.

Equal opportunities and Inclusion

See Pendragon Primary's Equality statement in our school brochure

Assessment, Record keeping and reporting

- See Pendragon Primary' assessment policy

Monitoring and evaluation

- The science Subject leader under supervision of the Governors, Headteacher and curriculum lead (SLT) is responsible for ongoing monitoring and evaluation in order to ensure high standards and improved outcomes across the subject.
- A subject action plan is shared and reviewed annually.