Our Science Curriculum

Intent

The teaching and learning of Science at Lewannick aims to enable pupils to carry out different science enquiries which will help them to answer scientific questions about the world around them. We aim to deliver a high-quality science education, which provides the foundations for understanding the world through age appropriate aspects of the disciplines of biology, chemistry and physics.

Through a stimulating environment, pupils will be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. Pupils will be encouraged to develop and use a range of working scientifically skills including questioning, explaining what is occurring, predicting how things will behave and analysing causes. Our pupils will be equipped with the scientific knowledge and vocabulary required to understand the uses and implications of science, today and for the future.

Implementation

Science will be taught termly in a discrete weekly teaching sequence. Each year group will deliver units that are outlined in the science national curriculum programmes of study as well as science specific focus study units. The high quality teaching and learning is supported by adapted planning by Pearsons Scheme of Learning. We teach skills that are progressive and developed as pupils move up through the school. We will ensure our pupils are able to describe processes and key characteristics using technical vocabulary, accurate and precisely.

Pupils will apply their mathematical knowledge to their understanding of science including collecting, presenting and analysing data. Where possible teachers will wish to use different age-appropriate contexts to maximise their pupils' engagement and motivation to study science. Working scientifically skills will be embedded within context and, focus on the key features of scientific enquiry such as observing over time, pattern seeking, identifying, classifying and grouping, comparative and fair testing and by carrying out research.

Impact

Pupils will have built up sufficient understanding to engage meaningfully in more sophisticated discussions about the nature, processes and methods of science. The impact of teaching is regularly monitored through the sampling of pupils books and conferencing. By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. This will be assessed through a variety of end of unit assessments.