



At St. Joseph's
we aim to promote a learning community
based on the Gospel values of
Love, Trust and Respect
where the achievements of everyone are recognised and celebrated
Living, Learning and Loving together with Christ

Science Curriculum

Intent

At St. Joseph's, we believe that a high-quality Science education will provide children with the foundations for understanding the world through the specific disciplines of Biology, Chemistry and Physics. Through building up a body of key foundational knowledge and concepts, children are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They are encouraged to understand how Science can be used to explain what is occurring, predict how things will behave and analyse causes.

We aim to ensure that all children:

- 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 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 applications of Science, today and for the future.

How this is implemented at St. Joseph's

At St. Joseph's, Science is taught both as a discrete subject and as a part of the wider curriculum. In EYFS, children begin to develop an understanding of Science through the Prime Area of Learning - Understanding the World. Children explore and find out about the world around them and begin to ask questions. As children progress through the school they are given a wide range of scientific experiences as they are introduced to more complex ideas. Children learn to ask scientific questions and begin to appreciate the way Science is an integral part of our everyday modern life

and will affect the present and the future on a personal, national and global level. The curriculum develops scientific knowledge and conceptual understanding through a range of topics from the disciplines of Biology, Chemistry and Physics. Children work scientifically and develop their understanding of scientific enquiry by establishing and evaluating explanations through experimental evidence and modelling. Children apply their mathematical knowledge to their understanding of Science, including collecting, presenting and analysing data.

Children are given the opportunity to develop their scientific understanding through first hand, real - life experiences both within and beyond the school environment for example Forest School activities, visits out of school and participation in workshops (Centre for Life, Scotswood Community Garden).

Impact of Science at St. Joseph's

At St. Joseph's, we teach the foundations of Biology, Chemistry and Physics in a fun and enjoyable way, with an emphasis on practical activities in each lesson to help demonstrate and understand learning objectives. Science is taught as a discrete subject; however our topic work will occasionally offer the opportunity for cross-curricular links.