



Securing an Excellent Science Curriculum for the Children of Botley C of E Primary School

The Intent of the Science Curriculum

At Botley C of E Primary School, we recognise that science plays a huge part in everyday life for both children and adults, therefore it is paramount to learn and develop understanding of this subject. Children's knowledge and understanding of our world, and with developing skills associated with Science as a process of enquiry, will increase and the curriculum offer will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence. This will support them to become respectful, responsible stewards of their world in the future.

Our science curriculum will cover all of the knowledge and understanding as set out in the National Curriculum and beyond, including use of our extensive school grounds and facilities to ensure that all individual learners access, process and build their understanding and learning throughout their time at the school.

The main aims of our science curriculum is to ensure that all pupils:

- 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.

The Implementation of the Science Curriculum

The children at Botley C of E Primary School will learn science through engaging, practical and inquiry based learning experiences which will be both linked with thematic learning and taught discretely, in order to provide a structure through which skills, knowledge and understanding are developed.

Staff will model explicitly the subject-specific vocabulary, understanding and skills relevant to the learning and enable the children to then take an interesting and varied learning journey. Assessment will be ongoing throughout each unit of learning to inform teachers of progress in order to provide the children with responsive teaching based upon individual learning needs.

Our children will act as scientists and will be given a variety of experiences both in and out of the classroom in order to create memorable and hands on learning opportunities that will cultivate independence, enable them to make discoveries and gain enjoyment throughout. They will be given regular opportunities to apply their knowledge through investigation and enquiry by seeking to find answers to questions. Our engagement with the local environment ensures that children learn through first hand experiences of the world around them wherever possible. They will ask and answer questions through investigation and undertaking practical activities.

Children's books will evidence that they have been taught science at an appropriate age level with a breadth of coverage, however, will also show that their learning has been individually challenged to address misconceptions and questions that they have around particular aspects of science.

The Impact of the Science Curriculum

The approach to Science at Botley C of E Primary results in an enjoyable, engaging, high-quality science education, that provides children with the foundations for understanding the world. The children will have the understanding that science has changed our lives and that it is vital to the world's future prosperity.

Pupils will have a love of the subject that will make them inquisitive, questioning and respectful of the world around them.

A high proportion of the children will be working at age related expectations or beyond at key points and they are effectively prepared for the next stage of their educational journey within the subject of science.