

## **Science at Ramsbury School**

We believe that Scientific investigation is one of the most powerful ways to learn; harnessing children's natural curiosity as well as challenging what we know about the world. Science allows us to make sense of where we live and our place in the ever-expanding universe. Science is all around us and empowers our creative thought process.

### **Intent**

At Ramsbury School, we seek to ensure that children develop scientific knowledge and conceptual understanding through the disciplines of biology, chemistry and physics. Lessons have a skills-based focus, and knowledge is taught through this. Scientific skills are built on and developed throughout our children's time in our school so that they can use equipment, conduct experiments, explain concepts confidently and continue with their eagerness to ask questions and be curious.

### **Implementation**

There is a positive attitude to Science learning in our classrooms and an inherent expectation that all children are capable of achieving high standards in Science. Topics are taught in blocks arranged by the class teacher. This is a strategy to enable a greater depth of knowledge and understanding. Our children relish the opportunities that they are given to use their scientific skills and research to discover the answers; this curiosity is celebrated within the classroom. Precise questioning in class is used to regularly assess children and identify those with gaps or misconceptions in learning. We build upon the learning and skills of the previous years. As the children's knowledge and understanding increases and they become more proficient in selecting and using scientific equipment and collating and interpreting results, they become increasingly confident to come to their conclusions based on real evidence. These skills are used alongside an emphasis on group work and communication using technical vocabulary and challenging concepts. Science lends itself to outdoor and 'hands-on' learning, and so we provide children with opportunities to experience this. This includes strong local links, such as those with Ramsbury Estates, ARK (Action for River Kennet) and Marlborough College, as well as the RSC.

### **Impact**

This successful approach at Ramsbury School results in a fun, engaging, high-quality Science education that provides children with the foundations for understanding the world. Our engagement with the local environment within Ramsbury and further afield ensures that children learn through varied and first-hand experiences of the world around them. Children at Ramsbury overwhelmingly enjoy Science, and this results in motivated learners. Children have an understanding of how Science continues to change our lives; appreciating the diversity of the scientists who have led this. Our children are actively encouraged to consider the possibility of careers in Science.

The Curriculum Leader for Science is Mrs Sophie Pollock.

