



## **Bishop King C.E. Primary School**

### **Our Intent, Implementation and Impact statement for Science**

#### **Intent**

Seeing is believing. To root scientific theory and knowledge in reality through experiment through experiments, observation and investigation.

#### **Implementation**

The acquisition of key scientific knowledge is an integral part of our science lessons. Linked knowledge organisers enable children to learn and retain the important, useful and powerful vocabulary and knowledge contained within each unit. The progression of skills for working scientifically are developed through the year groups and scientific enquiry skills are of key importance within lessons. At Bishop King teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science. Our whole school approach to the teaching and learning of science involves the following;

- Science will be taught in planned and arranged topic blocks by the class teacher. This is a strategy to enable all children to be catered for through adapted planning suited to their abilities
- Through our planning, we involve problem solving and real life opportunities that allow children to find out for themselves. Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Planning involves teachers creating practical, engaging lessons with opportunities for precise questioning in class to test conceptual knowledge and skills, and assess children regularly to identify those children with gaps in learning.
- Our curriculum is progressive and we build upon the learning and skill development of the previous years, which is tested through our '*Pre-learning Quiz*' where teachers can identify misconceptions the need addressing.
- Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.
- Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts.
- Through enrichment days, such as science week' we promote the profile of Science and allows time for the children to freely explore scientific topics.

## **Impact**

The successful approach to the teaching of science at Bishop King results in a fun, engaging, high-quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education. So much of science lends itself to outdoor learning and so we provide children with opportunities to experience this. Children learn the possibilities for careers in science as a result of our community links and enrichment activities such as Aspirations Week. . Pupil voice is used to further develop the Science curriculum, through questioning of pupil's views and attitudes to Science to support the children's enjoyment of science and to motivate learners.