

SCIENCE AT KING CHARLES

INTENT

What are the aims?

At King Charles, we recognise the importance of Science in every aspect of our lives. Through their journey at our school, we aim to give our children the **skills and knowledge** necessary to be able to **question and explore** the world around them confidently. We want our children to be excited and naturally curious about the world around them and to foster a sense of awe and wonder. We feel it is important to promote respect for all living things and we are committed to providing a stimulating, engaging and challenging learning environment where our pupils are encouraged to develop and use a range of **scientific skills** confidently and purposefully. We aim to equip our children with the scientific knowledge and skills required to understand the uses and implications of science today, tomorrow and into their ever-changing future.

IMPLEMENTATION

What does it look like?

At King Charles, we ensure high standards of teaching and learning in Science by implementing a curriculum that is progressive throughout the school. Teachers promote a positive attitude to Science learning within their classrooms. Through high quality planning, using the Chris Quigley milestones, we ensure that the school gives full coverage of the 'National Curriculum programmes of study for Science 2014' and 'Understanding the World' in the Early Years Foundation Stage.

Science teaching is predominantly topic based with an overarching question leading the way. This encourages cross curricular links where possible, including extended writing opportunities. Where some learning does not fit into this, it is taught discretely alongside a topic to ensure coverage.

Regular events, such as Science-based 'Ex-Days' and Science Week/Days allow all pupils to come off-timetable, to provide broader provision and the acquisition and application of knowledge and skills. These events often involve the wider community.

Through our planning, we build in problem solving opportunities so that pupils can discover for themselves. As scientists, they are encouraged to ask and answer their own questions in a safe, nurturing environment. Teachers find opportunities to develop and nurture children's curiosity about the world around them by accessing outdoor learning, school visits and workshops with experts, e.g. Marine Conservation Team.

Scientific enquiry skills (observing, measuring, predicting, hypothesising, experimenting, communicating, interpreting, explaining and evaluating) are embedded into lessons to ensure these skills are being developed throughout their school journey. We build upon the learning and skills development of the previous years to ensure progression. As knowledge and understanding increases; and children become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.

What are the outcomes?

IMPACT

Through our SHINE curriculum and the development of scientific skills based on the milestones, children will know more, understand more and remember more about their Science learning. Pupil voice is used to further develop the Science curriculum through questioning of pupil's views and attitudes towards Science to support enjoyment and motivates learners.

Our engagement with the local environment, together with interactions with experts and local charities will ensure that our children learn through first hand experiences of the world around them and develop an understanding that Science has, and will continue to, change our lives.

The Science curriculum we provide will give children the confidence and motivation to further develop their skills into the next stage of their education and life experiences enabling them to continue to SHINE.