Intent, Implementation and Impact for Science at

St Paul's C of E Primary School

Intent

The intent of the Science Curriculum at St Paul's is to provide a high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics.
Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science.
Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.
We intend that all children learn important skills to enable them to become life-long learners and instil a passion for Science that can be used to drive their long term career aspirations.

Implementation

The teaching of Science at St Paul's is led by a Science Lead who will regularly monitor, evaluate and review how Science is taught, the quality of learning by all children and sharing of good practice across all key stages. Regular end of unit assessments will be used alongside Teacher Assessment to assess the children's learning and ensure that class teachers are able to plan appropriately their next steps.

All staff in KS1 and KS2 will use the National Curriculum 2014 as the basis for our science curriculum as well as the resources provided by the Science Lead to tailor their delivery of Science to meet the appropriate learning and developmental needs of the children in our school.

Teachers will plan science using the progression of knowledge and skills document which will allow children across all Primary stages to build upon prior knowledge and understanding. All aspects of Working Scientifically will be incorporated into Science lessons by teachers using enquiry-based lessons, where appropriate, to support the children's journeys to become independent and resilient learners.

Teachers will ensure that relevant Vocabulary is used throughout the delivery of their Science Units of Work and will display this vocabulary in class.

The promotion of STEM is a key target at St Pauls and a regular annual STEM week will take place to encourage and inspire children to pursue a STEM career and show the cross-curricular links between each of the STEM disciplines.

Regular pupil, staff and parent voices will be taken to ensure the views of all those involved in the delivery of Science at St Paul's is taken into consideration and adapted to meet the evolving needs.

Impact

Science will be a high profile subject throughout St Paul's. Children will become resilient, independent and curious scientists who ask questions and want to find out things for themselves about the world around us.

We use a range of assessment strategies to review the progress and attainment of all our pupils, including high quality AFL strategies and both formative and summative assessments.

This enables teachers to adapt their teaching, lesson content and support to ensure progress for all learners. Children are also asked to reflect and assess their own learning after each lesson, relevant to their age and experiences.

Formative assessment involving questioning, in the moment marking, observation, challenge and questioning will be used in every Science lesson. At the end of each lesson or series of lessons a science quiz will be given to identify gaps in teaching and learning. End of year assessments will be completed to say whether children are at ARE, below or above. This may include the use of standardised tests.

Monitoring Science will be monitored via 'Book Looks', planning, and feedback, learning walks and observations, pupil voice and staff voice.

Staff Development - Staff training during staff meetings, mentoring, team-teaching and peer observations; Training courses. This will ensure that staff are confident with the delivery of Science across St Paul's and we provide an inspiring delivery of Science for our children.

Children will leave St Pauls equipped with the scientific knowledge and skills needed to succeed in their further education and an awareness of STEM opportunities.