



Science at St Joseph's



Intent

We aim to equip all pupils with the essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils will develop a sense of excitement and curiosity about natural phenomena and, by working scientifically, pupils will understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Implementation

Each year, children are taught the units and objectives specified in the National Curriculum. Clear and well thought out sequences of learning with key assessment tasks ensure that new knowledge and skills build on what has been taught before, addresses common misconceptions and allows clear opportunities for working scientifically. Discrete lessons are delivered with learning blocked to allow for clear progression. Knowledge Organisers provide the structure to learning, specifying key knowledge and vocabulary that we want all children to understand and use fluently.

Children are encouraged to pose and investigate their own scientific questions and, where applicable, utilise skills acquired in other areas of the curriculum, particularly maths. Likewise, explicit links are made between subjects, which enable the children to apply their scientific knowledge in other areas, such as Art and Design, Design and Technology, Computing, Geography, Music, P.E. and P.S.H.E. Additionally, children learn about the work, achievements and impact of a range of great scientists, both past and present, so as to demonstrate the role and importance of scientific enquiry and understanding in shaping the modern world.

Impact

The impact for all St Joseph's pupils, including disadvantaged pupils and pupils with SEND, is that they:

- can confidently recall key scientific knowledge and demonstrate their understanding through clear, eloquent explanations
- can work scientifically to attempt to answer questions, test predictions and draw conclusions based on findings
- can confidently apply knowledge to their learning across the curriculum
- are confident in using and applying scientific vocabulary