



In the Light of Jesus, we Learn to Shine – Primary Aims of our School Curriculum

Science

The National Curriculum (2014) explains the intent, implementation and impact of the science curriculum for Key Stage 1 and 2, through its ‘Purpose of Study’ and ‘Aims,’ which we apply at St Joseph’s. The details for this can be accessed [here](#). The following statements outline the broader intent, implementation and impact of our science curriculum for St Joseph’s beyond those stated in the National Curriculum (2014):

INTENT	<p>The broader aims of the St Joseph’s Key Stage 1 and 2 curriculum for science are:</p> <ul style="list-style-type: none"> • for all our pupils to grow in love and appreciation of God’s world which teaches us to follow in Jesus’ footsteps to love and look after our planet as outlined in Pope Francis’s, Laudato Si, and to also care for ourselves. • to provide all children, regardless of ethnic origin, gender, class, aptitude or disability, with a broad, balanced and diverse science curriculum. • to immerse children in scientific vocabulary and opportunities for talk in science. • to enable the progressive build-up of a body of key foundational knowledge and concepts so children grow in their understanding. • to instill a lifelong love and understanding of science within our pupils, preparing them for a life in the modern world. • to make children feel motivated, as active learners who are empowered with the confidence and self-esteem to make independent choices.
IMPLEMENTATION	<p>Science will be implemented across Key Stage 1 and 2 for all pupils at St Joseph’s by:</p> <ul style="list-style-type: none"> • using a range of exciting resources and activities, including enrichment days, such as ‘science week’ and visits/visitors, that are pitched to the needs of the children, enabling support and challenge where required. • helping our children acquire a growing understanding of the nature, processes and methods of current and relevant scientific ideas including a focus on a diverse range of scientists. • embedding understanding through oracy, including explicitly teaching all pupils to use specific topic-related vocabulary and encouraging pupils to recognise the power of rational explanation to draw upon concepts already learned. • progressive planning that enables knowledge and skills to be firmly revisited, extended and embedded, explicitly linked to the Gospel Values. • providing opportunities for children to work both collaboratively and independently, make mistakes and grow in their resilience. • teaching scientific objectives through cross-curricular opportunities.

IMPACT

The impact of the St Joseph's Key Stage 1 and 2 curriculum for science is that:

- children love learning science and are fascinated by God's world. They will become caring, appreciative and respectful of God's world and in wider society. They have the necessary information to care for themselves and lead healthy lives.
- children's knowledge and understanding of topics they are studying and of the world around them are secure.
- children gain a rich diet of vocabulary which enables them to make further progress across a wide range of subject areas.
- children are able to explain the process they have taken and be able to reason scientifically.
- for all pupils to make good progress in science regardless of their starting point.
- children become increasingly independent in science, selecting their own tools and materials, completing pupil lead investigations and choosing their own strategies for recording.
- preparing our children for life in an increasingly scientific and technological world today and in the future.