



St Joseph's Catholic Primary School – Science Intent, Implementation and Impact Statement



Mission Statement

*“Jesus light our way on our faith journey.
Be our guide, our joy and our hope, as we learn, live, love and pray together.”*

Science Statement of Intent

Within St Joseph's, it is our intention to provide high quality science education to all children, with the foundations they need to recognise the importance of science in every aspect of daily life. The Science curriculum is planned to ensure that our children are challenged to become inquisitive, knowledgeable and skilful scientists. They will develop the skills to plan and carry out investigations and to be able to evaluate their work. The Science Curriculum has been developed to revisit and build upon previous learning as the children progress through the school. At St Joseph's we give the teaching and learning of science high prominence nurturing the children's natural curiosity while guiding them to deeper learning.

We work on a two-year science curriculum which ensures comprehensive coverage of all topics and all lessons are designed that children will become enquiry-based learners collaborating through researching, investigating, and evaluating experiences. The aim of which will encourage respect for living organisms and for the physical environment, which will be developed through our Building the Kingdom curriculum.

As our young scientists develop, they will develop and use an increasing range of skills, including how to carry out different sorts of scientific enquiries, how to use different methods of recording data and different methods of presenting their findings. Additionally, the children will embed and build upon their scientific vocabulary and knowledge by revisiting previous topics and adding to their previous knowledge and understanding.

Science Implementation Statement

A broad and balanced Science curriculum will be implemented by the following:

- A Skills based approach will be used in the teaching of Science that encompasses the following Key Scientific Skills; predict, control, observe, interpret, evaluate, investigate.
- Spiralled, learning-based targets that identify both skills, and knowledge required for each year group. The skills will spiral and develop as the children progress and will be embedded by repetition and application as they move through Key Stage 1 and 2. This will be placed in the front of every child's book and progress against both these skills and knowledge recorded.
- Spiralled vocabulary. A vocabulary builder that identifies the vocabulary to be taught by Unit by Year has been introduced. This identifies where and what previous relevant vocabulary was taught by Unit and Year Group.
- A whole school Science Day will be planned each Year which will take different focuses to promote and celebrate scientific discovery, scientists and the joy of science.
- The use of child led practical investigations that will enrich lessons and develop perceptive questioning, critical thinking and give an opportunity to develop perspective and judgement.
- Teaching and learning will be assessed by the Class Teacher (CT) and will be by using on-going informal assessment based on observation; discussion; questioning; written work and presentations. The Subject leader will assess the teaching of Science across the school through the



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review of planning, lesson observations, book looks, questioning and discussion with pupils and the review of the 'Effective Feedback Book'.

- The Science Lead with the help of the science champions will promote the love of science in all areas of school life not just during lesson times.

Science Impact Statement

That children will progress to secondary education with a strong foundation and enthusiasm to want to know more about their world around them.

The successful approach at St Joseph's results in a fun, engaging, high-quality science education that provides children with the foundations and knowledge for understanding the world. Our engagement with the local environment ensures that children learn through varied and first-hand experiences of the world around them. Through our Science Day, our science champions, high quality teaching, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity. From exposure to a range of different scientists from various backgrounds, all children at St Joseph's feel they are scientists and capable of achieving. Our children overwhelmingly enjoy science, and this results in motivated learners with sound scientific understanding. Pupil voice is used to further develop the Science curriculum, through questioning of pupils' views and attitudes towards science, to assess the children's enjoyment of science, and to motivate learners.