



Science

Intent

At Wren Park our vision for Science is:

At Wren Park, we aim to provide memorable and fun opportunities for children to develop their understanding of the world around them and to build an awareness of how Science directly relates to their everyday life. We use engaging and practical contexts to encourage children to experiment, discover, wonder and observe. Science fosters a healthy curiosity about the universe around us as well as promoting a respect for world around us and provides opportunities for the critical evaluation of evidence through observation and investigation.

Following the National Curriculum allows us to deliver broad, balanced and sequential learning, though opportunities are seized to extend and develop our learning in line with the needs, questions and interests of our children. At Wren Park, our lessons are carefully planned to promote scientific thinking, curiosity and wonder, independent investigative skills and to extend and develop their scientific vocabulary in a range of contexts. Lessons are planned to be practical, thought provoking and relevant with the children encouraged to explore, record and report their findings. Wherever possible, we link Science learning into our termly topics and into real-world contexts.

Derby is an area well known for its engineering and industry and we aim to encourage a greater appreciation for STEM subjects. Living in an area of industry and engineering helps us to promote the significance of STEM subjects and helps us recognise the importance of inspiring both girls and boys to engage in a lifelong love of STEM subjects.

At Wren Park, we believe all children are scientists and our Science curriculum strives to help children discover the awe and wonder of everything around them. We aim to provide our children with the confidence and motivation needed to further develop their skills for life in the primary classroom and beyond.

Implementation

We translate this into practice by:

At Wren Park, teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in this subject.

Science is taught in planned and arranged in half-termly topic blocks by the class teacher. This is a strategy to enable the achievement of a greater depth of knowledge and meaningful learning linked to other curriculum areas. Our small-steps progression is identified by our Science scheme, 'Developing Experts'. Through our planning, we involve problem solving opportunities that allow children to find out for themselves. Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Children are exposed to 'real life' scientists each lesson, and, wherever possible, topic blocks are linked to industry.

Working Scientifically skills are embedded into each lesson to ensure these skills are being developed throughout each topic progressively, and new vocabulary and challenging concepts are introduced through direct teaching. Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Our Maths and Science curriculum are tightly linked together to ensure that pupils learn more knowledge when working scientifically.

Our curriculum is enriched with trips; afterschool clubs and practical opportunities for children to participate in activities to increase climate resilience reduce carbon impact and enhance biodiversity, therefore enabling children to translate knowledge into positive action for our planet.

Impact

We know this works for our pupils through:

The successful approach to the teaching of science at Wren Park results in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education.

It is so important to us that our children understand that scientists come from a diverse range of backgrounds. Through our curriculum, they are exposed to scientists who work in a vast array of jobs in a variety of places. It is our aim that children see that science opens up an amazing world of opportunities for everyone.

We hope that children will become more resilient, independent and curious scientists who will ask questions and find things out for themselves. We hope they understand the role they have to protect our planet.

Children will leave for secondary school equipped with the science knowledge and skills needed to succeed in their further education. They will demonstrate a confidence and love of learning for all things science.