

Science

Intent

At JKPS, we have chosen to use [White Rose Science](#) to deliver our science curriculum.

We aim to inspire our children to be curious about the world around them, opening the doors to scientific understanding through knowledge and inquiry. We aim to provide our children with a range of scientific learning opportunities, both practical and theoretical, whilst constantly developing their bank of scientific vocabulary.

White Rose Science is mapped out meticulously to the National Curriculum, ensuring that every child is progressing across Key Stage 2 when it comes to their scientific knowledge, understanding and skills. However, we don't stop there. Our science curriculum, using White Rose, aims to develop conscious, thoughtful citizens who care for their world; every year group has multiple units that focus on sustainability and the role science learning can play in combatting environmental issues.

Through a rigorous and engaging science curriculum, we are preparing our children for their secondary transition, equipping them with the necessary skills to approach Key Stage 3 (and beyond) with confidence and continued curiosity.

Implementation

At JKPS, our children cover a plethora of science learning; long-term planning doesn't stick traditionally to one topic per half term, instead ensuring that a wide range of knowledge and skills is covered across the course of a year.

The key to the White Rose Science curriculum, much like their maths curriculum, is the 'small steps' approach, where essential aspects of the science curriculum is broken down into easily digestible chunks. Children do this through:

- practical investigations and experiments
- scientific discussion
- working scientifically using systematic approaches
- gathering of scientific evidence to back up hypotheses
- the use of everyday materials and scientific equipment to solve problems, and
- articulating scientific concepts using core vocabulary.

Schemes of learning allow teachers to plan inspiring lessons, drawing on key concepts with all the guidance and supporting materials they need to do so – notes always highlight important vocabulary, misconceptions, practical ideas and factual knowledge. White Rose PowerPoints are adapted by teachers to deliver lessons and children record learning in their science exercise books.

Impact

Our focus at JKPS is on quality-first science teaching, where children are engaged and inspired. Formative assessment takes place throughout lessons to assess children's understanding; a range of strategies are employed to formatively assess, including a 'true or false?' question to end every lesson.

We believe our science curriculum will enable children to be enthusiastic science learners who can confidently talk about what they have learnt using subject specific vocabulary. It will also teach them to ask perceptive questions, reason scientifically and work collaboratively and practically to investigate and experiment.

Book looks and learning walks will evidence impact of science teaching and learning across the school.