



INDEPENDENT JEWISH DAY SCHOOL
an ACADEMY

Science

Intent, Implementation & Impact

Intent

At IJDS, through our Science teaching, we aim to give all children a strong understanding of the world around them, whilst acquiring specific skills and knowledge to help them to think scientifically and to gain an understanding of scientific processes. We aim for our pupils to understand the uses and implications of science for today and the future.

Implementation

At the heart of our curriculum is scientific investigation, wherever possible, leading to our pupils being curious about the world around them and able to plan and carry out investigations.

Science teaching encompasses key vocabulary being explicitly taught alongside the acquisition of knowledge, concepts and skills. As children build on their skills of working scientifically they are able to apply their knowledge to using equipment, building arguments and explaining concepts confidently.

Science is taught in planned and arranged topic blocks, with some topics being re-visited in order to continue to build on the foundations of knowledge and to progress in skills as well as allowing learning to be secured in the long term memory. All pupils are catered for with a variety of scaffolding and support put in place, to ensure that the lessons are accessible to all.

Teachers plan for problem solving and real life opportunities that enable 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. Engaging lessons with key questions and use of accurate vocabulary is used to foster learning.

Quizzes and questioning at the start of topics allow for assessment

of misconceptions that might need addressing.

Enrichment days, such as Science week, allow for deeper exploration of science topics and further progression in terms of scientific enquiry skills.

Impact

Pupil voice is used to assess the children's enjoyment of science and motivation as learners, eager to discover and learn more. Learning walks and opportunities to showcase learning through presentations as a class or whole school are built into the year, such as science week. Assessment for learning takes place, with pupils being assessed on their scientific thinking, forming investigative questions, using technical vocabulary and ability to communicate scientific ideas coherently. Quizzes and a focus on prior knowledge and learning takes place at the start of each topic to ensure that progression learning is in place.