



READY RESPECTFUL ENGAGED

Science

Intent

In science, our intent is to provide an exciting and dynamic curriculum, where children develop enquiring minds, and are encouraged ask questions about the world around them. We want our children to have the freedom to learn in different ways, through reading, researching and practical exploration. Children will be given opportunities to engage in stimulating experiments, which allow them to make predictions about what might happen, analyse results and engage in discussions.

We intend to support children in reaching their full potential, making progress throughout each year group, by offering them with opportunities to revisit essential skills and topics through their journey through school, and building on their prior knowledge.

We want our children to relate science to everyday life and develop a respect for living organisms and their physical environment. We intend to give children opportunities to ask questions, solve problems and think critically. It is our aim that children will leave Ravensdale Infant and Nursery School with a strong understanding of scientific vocabulary that they can confidently use themselves.

Implementation

At Ravensdale Infant and Nursery School, we strive to make Science enjoyable for all children. We encourage children to engage in a range of investigations through events such as Science Week and STEAM weeks, as well as throughout their half-termly topics. We encourage cross- curricular learning, allowing children to make links to other areas of their learning. Through science, children will be taught to value the community in which the school is set. Trips may be made out of school to local parks, reservoirs etc., when studying the environment for example. Children will be provided with opportunities for other trips out of school with a science focus, as well as events within school. Our children's learning will be enhanced by outdoor learning, specialist visitors and quality first teaching.

We understand that children learn in different ways, and so teachers will assess children's work through observations, discussions and through assessment of written work. Teachers will ensure that Working Scientifically skills are embedded into lessons to ensure a progression of skills and this will be monitored by the subject co-ordinator. On completion of a piece of work or activity, the teacher assesses the work and gives oral or written feedback, as necessary, to inform future progress.

Teachers will liaise with Early Years Foundation Stage to ensure transition is successful and that gaps in knowledge and understanding can be addressed effectively. Children will be taught through an agreed progression of skills. This will allow for children to revisit and build upon skills throughout their school career. Opportunities for Science learning will be provided through learning about The World and resources will be available to enhance this through both continuous and enhanced provision.

Topic boxes will be created for each topic containing appropriate resources across Key Stage 1 and practical science resources will be kept in labelled boxes centrally, ensuring that all staff have access to them.

The science co-ordinator will attend relevant CPD courses made available, enabling the subject leader to support colleagues in their teaching. The science co-ordinator will keep colleagues informed of developments in science and signpost colleagues to valuable resources and information.

Impact

At Ravensdale Infant and Nursery School, the impact of our curriculum will be shown through:

- Teacher observations against curriculum statements
- Practical evidence from STEAM days and activities
- Evidence from Science Week
- Discussions with children about their learning
- Assessment of written work