



Lifelong Learners

Communication

Well-being

Community

Woodgate Primary: Science

Intent

At Woodgate Primary School, our **intent** is to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover the world around them, so that they have a deeper understanding of the world we live in. We want our children to be curious and to ask questions. We want them to have the skills to seek answers to these questions. We want our children to be ambitious and to see themselves as future scientists in jobs such as, pharmacists, biologists, physicists etc.

To achieve this, our science will involve exciting, practical hands on experiences that encourage curiosity and questioning whilst developing knowledge, skills and a science rich vocabulary. As well as a coherently planned and sequenced curriculum, we will offer enrichment through visits, visitors and other learning experiences. Links to other areas of the curriculum will be made, strengthening the children's understanding of how all learning links together. Our curriculum will meet the needs of all of our children equipping them with, not only the minimum statutory requirements of the science National Curriculum, but to prepare them for life and future learning.

Implementation

Our Science curriculum is organised over a two year cycle to meet the needs of our mixed age classes. Children are taught in groups comprising KS1, lower Key Stage 2 and Upper Key Stage 2. Where links can be made to topics, they are.

Nursery and reception children are taught science through The Early Years Foundation Stage Curriculum which supports children's understanding of Science through the planning and teaching of 'Understanding the World.' Children find out about objects, materials and living things using all of their senses looking at similarities, differences, patterns and change. Both the environment and skilled practitioners foster curiosity and encourage explorative play, children are motivated to ask questions about why things happen and how things work. Our children are encouraged to use their natural environment around them to explore. Children enjoy spending time outdoors exploring mini-beasts and their habitats, observing the changing seasons, plants and animals. Children regularly participate in cookery and baking sessions which allows them to experience changes in state as ingredients are mixed, heated and cooled.

- Every group will build upon the learning from prior groups therefore developing depth of understanding and progression of skills.
- Teachers promote enjoyment and foster interest of the scientific disciplines; Biology, Chemistry and Physics.
- Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.
- Children present their findings and learning using science specific language, observations and diagrams.
- In order to support children in their ability to 'know more and remember more' there are regular opportunities to review the learning taken place in previous topics as well as previous lessons.
- At the start of each topic children will review previous learning and will have the opportunity to share what they already know about a current topic.
- CPD and standardisation opportunities are available to staff to ensure high levels of confidence and knowledge are maintained.
- Effective use of education visits and visitors are planned, to enrich and enhance the pupil's learning experiences within the Science curriculum.
- Teachers use assessment for learning in each lesson to ensure misconceptions are highlighted and addressed.
- Effective modelling by teachers ensures that children are able to achieve their learning intention, with misconceptions addressed within it.
- Through adaptive teaching, teachers ensure that each pupil can access the Science curriculum.
- Cross-curricular links are planned for, with other subjects such as Maths, English and Computing.
- Our Subject Assessment Tracker allows us to use data to inform future practice.



Lifelong Learners

Communication

Well-being

Community

Woodgate Primary: Science

Science impact

The impact of this curriculum design will enable all children to make progress over time, across key stages, relative to a child's individual starting point. Children will therefore be expected to leave Woodgate reaching at least age related expectations for Science. All children should leave as enthusiastic Science learners and understand that science has changed our lives and that science will continue to play a vital role in the world's future. We want to empower our children so they understand they have the capability to become scientist and impact the world. Impact is evidenced in a range of ways, including pupil voice, pupil work, observations of learning and pupil enjoyment for science.