

Curriculum Intent - Science

At Northwood Park Primary, we value the way in which Science affects the future of our pupils on a personal, national, and global level. As one of the core subjects taught in our school, we **strive** to ensure that the teaching and learning of Science is given the importance it requires. We aim to develop pupil's understanding of Materials and their Properties, Life Processes and Living Things, Physical Processes whilst concurrently developing their skills in Working Scientifically. Pupils learn to ask scientific questions, **explore** possible enquiries and **develop their natural curiosity** in finding out why things happen in the way they do.

Northwood Park Primary School uses the National Curriculum for Science as the basis of its planning and follows the statutory programme of study. Our curriculum is designed to ensure we embed **pupils' prior learning** and **build progression** so that learners **excel** and are increasingly challenged as they develop their skills and knowledge in each unit.

Science teaching and learning begins in EYFS through standards set out by the Early Years Foundation Stage 'Understanding of the World'. It is introduced through activities that encourage every child to explore, problem solve, observe, predict and discuss the world around them. The principal focus of Science teaching in Key Stage One is to enable pupils to **explore** phenomena, looking more closely at the natural and humanly constructed world around them. Pupils develop their understanding of scientific ideas by using different types of scientific enquiry including observing changes over a period of time, grouping and classifying things, carrying out simple comparative tests and using secondary sources of information.

In Key Stage Two, pupils **build on their prior learning** whilst also developing a deeper understanding of a wide range of scientific concepts through exploring and discussing their ideas; asking questions about scientific phenomena and analysing functions, relationships and interactions more systematically. Upper Key Stage Two pupils **explore** more abstract ideas and begin to recognise how these ideas help them to understand and predict how the world operates. They draw accurate conclusions based on their data and use their scientific knowledge to explain their findings.

Working together in harmony as a Northwood team, we **strive** to provide an **inspirational** Science curriculum which **nurtures** our learners with **confidence, aspirations** and a clear perspective of the **wealth of possibilities** available to them. The successful approach at Northwood Park Primary includes exposure to diverse scientists from a range of career backgrounds and engagement with our **diverse local community**. This ensures that our learners can **excel in applying themselves creatively** through first-hand experiences of the world around them. As a result of our **enrichment activities** and support from our **local industries**, children develop their scientific skills, **discover hidden talents** and are **inspired** to find **new passions** which is central to their **future successes**. The school's science provision is recognised by the achievement of the nationally recognised 'Primary Science Quality Mark', which the school currently holds at Gilt level.