

# Subject Profile

## Science

*Inspiring the scientists of today  
and tomorrow.*



### Intent

To provide an inspiring curriculum that supports the development of strong investigative skills and a wide breadth of scientific knowledge.

To provide exciting, practical and thought-provoking learning experiences that encourage children to become confident scientists.

To deliver varied and engaging lessons which allow children to apply their knowledge and question, test and evaluate their ideas.

To encourage collaborative working through group tasks and activities, thus leading to discussion, debate and improved communication skills.

To provide opportunities for outdoor learning which will enhance each child's understanding and appreciation of their local environment.

### Implementation

#### Strong Foundations

In the Early Years at Manor Primary School, we encourage our young learners to be curious about their environment and closely explore the world around them. Science at Foundation Stage is covered in the 'Understanding the World' area of the EYFS Curriculum and is introduced through structured adult-led activities, independent investigation and play. We encourage every child to explore, problem solve, observe, predict, think, make decisions and talk about the world around them. We aim to provide exciting and engaging experiences that help children connect with a variety of everyday materials, textures and natural objects, from seashells to frogspawn.

#### Vocabulary

Children love learning new words and vocabulary is a key part of the Manor science curriculum. Our teaching of vocabulary is progressive, with each new unit building upon the learning of previous years. Every science topic has a core of 12 new scientific words that we explicitly teach the meaning of, so that children can articulate scientific concepts clearly, confidently and precisely.

#### We are scientists!

At Manor, our children perform the work of real scientists! They observe and experience phenomena in the world, ask important questions, design experiments to find out answers, record their results and share their learning with others.

#### Progression

Progression in our science curriculum involves a structured development of skills and knowledge. From the Early Years onwards, children are provided with the experiences and knowledge to understand the world around them, from observing the seeds inside an apple to waterproofing fabrics and from counting the legs on an insect to explaining how light travels. Equally as important, we support children as they develop the skills to investigate independently, from asking simple questions in Year 1 to recording data and results of increasing complexity using scientific diagrams, classification keys and line graphs in Year 6.

#### Raising attainment

Excellent attainment is a child's passport to future opportunities and improving their life chances. At Manor, our children benefit from a rigorous science assessment and tracking system to monitor the progress of learners, identify strengths and areas for improvement.

#### Caring for our environment

We are lucky at Manor to have a large and varied outdoor area comprising many habitats, including a secret forest, a secure pond and dipping area, a wild-flower meadow and areas for growing fruit and vegetables. Outdoor learning is an important part of our science curriculum and we encourage our learners to observe the changes through the seasons, get hands-on with nature and care for their environment in a real world setting.