



Science

Intent

At Monksdown Primary School it is our vision to provide children with a science curriculum that enables them to explore and discover the world around them, confidently, so that they have a deeper understanding of the world we live in. In order to achieve this, we will promote and provide children with exciting, practical, hands-on experiences that encourage curiosity and questioning. Our aim is that these stimulating and challenging experiences will help children secure and extend their scientific knowledge and vocabulary.

At Monksdown, we believe in empowering children with a lifelong love of learning and instill in them the belief that questioning the world around them enables them to understand their place within it. It is with this core belief in mind that means science has an integral role in the entire wider curriculum. Developing an inquiring mind has a positive impact on all areas of the curriculum as well as the individual child themselves.

Implementation

What must be taught:

Science is a core subject in the National Curriculum. MTP are used to cover all areas of the science curriculum which provide sequential learning and high quality vocabulary.

OFSTED framework 2019:

Use a curriculum that is ambitious and designed to give all learners, particularly the most disadvantaged and those with special educational needs and/or disabilities (SEND) or high needs, the knowledge and cultural capital they need to succeed in life.

Teaching and Learning in Science is coherently planned and sequenced towards cumulatively sufficient knowledge and skills for future learning

We ensure that all children are provided with rich learning experiences that aim to:

- Prepare our children for life in an increasingly scientific and technological world today and in the future.
- Help our children acquire a growing understanding of the nature, processes and methods of scientific ideas.
- Help develop and extend our children's scientific concept of their world.
- Build on our children's natural curiosity and developing a scientific approach to problems.
- Encouraging open-mindedness, self-assessment, perseverance and developing the skills of enquiry including: Sorting and grouping, observations over time, pattern seeking, research using secondary sources and comparison and fair testing.
- Develop the use of scientific language, recording and techniques.
- Develop the use of computing in investigating and recording.

Planning for science is a process in which all teachers are involved to ensure that the school gives full coverage of, 'The National Curriculum programmes of study for Science 2014' and, 'Understanding of the World' in the Early Years Foundation Stage. Science teaching at Monksdown Primary School involves adapting and extending the curriculum to match all pupils' needs.

Science is taught across the whole school year. Learning is revisited and planned sequentially to build upon prior learning. In ensuring high standards of teaching and learning in science, we implement a curriculum that is progressive throughout the whole school.

Impact

The impact and measure of this is to ensure children not only acquire the appropriate age-related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

All children will have:

- A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills.
- A richer vocabulary which will enable children to articulate their understanding of taught concepts.
- High aspirations, which will see them through to further study, work and a successful adult life.