

# Curriculum Overview - Science

## INTENT

At Milton on Stour Primary School, we believe that a high quality science education provides the foundations for understanding the world through the combination of the disciplines of biology, chemistry and physics. The developments in science have changed our lives and are vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. We want the children to develop a sense of excitement, motivation and curiosity about natural phenomena and use their skills of articulation and oracy to make rational explanations based on their knowledge and ideas. Children should be encouraged to understand how science can be used to explain what they observe, predict how things behave and analyse causes. It is also our intention that pupils use their ambitious reading skills in their research to deepen their knowledge of science.

Our teaching of Science equips pupils with knowledge and understanding about

- Nature, processes and methods of science through different types of scientific enquiry that help them answer specific questions about the world around them;
- The use of science today and for the future
- A range of scientific vocabulary
- Scientific enquiry skills which will deepen their scientific knowledge
- Methods to communicate their scientific information and present it in a systematic, scientific manner, including ICT, diagrams, charts and graphs
- Developing a respect for the materials and equipment they handle with regards to their own and other children's safety

We want children to learn about science and the world around them, gaining knowledge and skills through their learning in school, not just through experiences in the classroom, but also outside in our grounds at school and in the community, through visitors, clubs and educational visits including our 11 before 11 and also through the termly projects focused on enterprise, global issues and community.

## IMPLEMENTATION

The subject of science is taught through our teaching progression for mixed age classes, where key themes are taught in specific terms to ensure that split classes cover the same content. Working scientifically is woven through all learning in science. At the beginning of a science unit the teacher will ascertain knowledge remembered as a starting point on which to base their teaching. Specific science content is taught through educational visits such as to Leeson House Field Studies Centre and through whole school science days or weeks.

## **IMPACT**

Impact will be measured at the end of each unit of work and assessments will be collated for each unit regarding key knowledge and vocabulary. At the end of the school year all units will be considered by teachers to make an overall judgement, alongside information from pupil discussions and pupil books. The science subject leader will comprise a statement each year summarising the overall annual impact of the Science Curriculum.

The impact is that children not only acquire age related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points and within 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 to articulate their understanding of taught concepts
- High aspirations, which will see them through to further study, work and a successful adult life