

## Science: Curriculum Implementation

Throughout each key stage, Science is taught in line with the EYFS guidelines and National Curriculum requirements. Our Science curriculum has been carefully constructed and developed and each lesson has a clear focus. Science units are planned to link key concepts, knowledge, skills and specific vocabulary. Scientific knowledge and enquiry skills are developed with increasing depth and challenge as children move through the year groups and this is mapped in our long term plan.

The sequence of lessons helps to embed scientific skills, knowledge and vocabulary, with each lesson building on previous learning. Activities are effectively differentiated so that all children have an appropriate level of support and challenge.

Science unit overviews give staff guidance to ensure that they are equipped with secure scientific subject knowledge and a chronological understanding of previous and future learning. These topic overviews, along with the opportunities for regular CPD, enable teaching staff to deliver high quality teaching and learning opportunities while making them aware of possible scientific misconceptions the children may face.

Teachers model subject specific vocabulary and this is displayed in each class, where pupils are directed to and encouraged to use the vocabulary in their responses, discussions and independent work.

Teachers invite different professions who use science in their role to talk to and work with the children (eg STEM ambassadors)

Assessment in Science lessons is focussed on pupils showing that they know more and remember more. There is a varied approach, which include various informal opportunities and will include:

- Question and answer opportunities where the correct vocabulary is used.
- Quick quizzes relating to important scientific facts.
- Start of the unit what I know now to show their prior knowledge. Then undertaken again at the end to show that they know more, remember more and do more.
- Planned writing activities, which focus on the children using correct scientific vocabulary.

The Science subject leader is responsible for monitoring the Science curriculum, including the development of long and medium term planning, as well as the standards of Science work in books. The Science subject leader evaluates the quality of education by lesson visits, scrutiny of pupils' work and pupil discussions. The Science subject leader has the opportunity to keep developing their own subject, knowledge, skills and understanding so they can better support curriculum development and their colleagues.