

Science Curriculum Statement

At Moat Farm Junior School, our science curriculum is **designed to ignite children's curiosity** about all aspects of science. We are determined to provide a broad, knowledge rich curriculum that is based upon **first hand experiential learning**, which is accessible to all of our children.

Scientific **substantive knowledge** is taught alongside specific scientific (**disciplinary knowledge**) skills in discrete science lessons that are delivered at least once each week. This allows the teachers to make it explicit that we are teaching science and the aspect of science being covered, e.g. physics, chemistry or biology. This encourages our children to think like scientists and to be able to identify the differing aspects of science.

Our science curriculum is structured around the specific requirements of the **National Curriculum**. It is carefully planned to ensure that current learning is linked to prior knowledge and includes opportunities for revision of this prior learning. The school's approaches are informed by current pedagogy.

Children's learning is revisited constantly, to strengthen their understanding. Using a **progression model**, we ensure knowledge, skills and vocabulary are taught in a sequentially coherent way.

Building blocks of **substantive knowledge** are an important aspect of our science provision. Key **disciplinary knowledge** and scientific skills such as: making appropriate predictions, asking and investigating questions, identifying methods of investigation and interpreting findings are explored in each scientific context. This gives our children the opportunity to make links to other scientific investigations, make comparisons and to reinforce their understanding. This focus on key skills allows our children to pursue science and other subjects with confidence in this and the next key stage.

Vocabulary is a key aspect of the pupils learning and is revisited on a weekly basis. Weekly curriculum quizzes are used to **review learning** and check that children know more and remember more. Learning is reviewed also on a termly basis, after a period of forgetting, so that teachers can check whether information has been retained.

Moat Farm Junior School's curriculum drivers of diversity, responsibility and opportunity are fundamental in our science provision. Our curriculum enables pupils to investigate science and our aim is that the **children can 'see themselves as scientists'** in our curriculum. Black history month is part of the science curriculum with notable scientists attached to each year group.

Our science curriculum is intrinsically linked to our PSHE provision at Moat Farm Junior School. Understanding science is a vital part of our ambition; preparing our children to become responsible citizens that understand the challenges in our time. Having the pupils see themselves as scientists provides them with the opportunity to **identify possible career paths**, for the future.

Enrichment is a fundamental part of science provision at Moat Farm Junior School. Our children will be given a variety of experiences both in and out of the classroom, to create memorable learning opportunities and to further support and develop their understanding.