



Science at Rackenfurd Primary School

Intent

At Rackenfurd Primary School we promote a love of science and an intrigue in the world around our pupils. Each year group provide a rich and varied curriculum ensuring full coverage of the National Curriculum. We intend to challenge and meet the needs of our children and all pupils to be taught the essential aspects of the knowledge, methods, processes and uses of science.

We will deliver a Science Curriculum that:

- Builds upon prior knowledge and a progression of skills to ensure all children have a secure understanding and knowledge of key science concepts
- Develops creativity and challenges all
- Will develop aspirational learners with an awareness of the key role that science plays within our community and the world and the opportunities that this creates for future careers
- Encourages our children to be self-motivated, independent, curious and resilient learners by developing inquiry-based skills and sessions.

Implementation

The curriculum is led and overseen by the science curriculum leader, who will regularly monitor, evaluate and review science teaching and learning. Teachers at Rackenfurd plan across the year to ensure they cover the whole Science National curriculum, making links with other subjects wherever possible and practical. Teachers use the Curriculum Maestro science planning to deliver lessons

- We focus on the teaching of specific technical vocabulary through the use tier 2 and tier 3 vocabulary being taught as an essential aspect of scientific development.
- Through effective teaching of science, we develop children's knowledge and key skills during each topic.
- Children are provided with regular opportunities to develop strategies for questioning and thinking.
- The teaching, learning and sequencing of science will follow our curriculum map which ensures coverage of the curriculum and progression in working scientifically, biology, chemistry and physics.

- The science progression of key skills document ensures the teaching of relevant scientific skills across the year groups including both knowledge and working scientifically. This includes enquiry, observing over time, pattern seeking, identifying, classifying and grouping, comparative and fair testing and research using secondary sources,
- Science week is celebrated across the school both within the class and during assembly and where possible we will invite speakers into school.

Impact

Science will be a high-profile subject throughout the school.

- Children will be enthusiastic and motivated scientific learners
- Children will learn develop their scientific knowledge and work scientifically.
- Children will have an awareness of the full range of scientific careers and pathways available to them and will be keen to pursue STEM subjects at secondary school.
- Children will leave for secondary school equipped with the science knowledge and skills needed to succeed in their further education.