



Curriculum Intent at Manuden Primary School

Subject/Area:

Science

Rational:

Through the teaching of Science, children understand the world around them and develop their natural curiosity. Learning through inquiry enables children to ask more questions and to develop their own explanations, as well as being able to draw conclusions from data.

INTENT

Ambition:

At Manuden, all children are given opportunities to succeed in Science. Children are encouraged to ask questions and lessons are planned according to these where possible, as well as meeting year group objectives. Teachers find exciting and innovative ways to teach Science.

Concepts

All children will explore ...

EYFS: Understanding the World

Year 1: Plants; animals; including humans; everyday materials; seasonal changes

Year 2: Plants; animals, including humans; use of everyday materials

Year 3: Plants; animals, including humans; rocks; light; forces and magnets

Year 4: Living things and their habitats; animals, including humans; states of matter; sound; electricity

Year 5: Living things and their habitats; animals, including humans; properties and changes of materials; Earth and space; forces

Year 6: Living things and their habitats; animals, including humans; evolution and inheritance; light; electricity

Alongside these areas, children are also taught practical scientific skills, including but not limited to:

- Asking questions and finding ways to answer them
- Setting up and performing fair tests and observing carefully in order to answer questions
- Gathering, recording and presenting data
- Making conclusions and predictions



Curriculum Implementation at Manuden Primary School

Subject Knowledge

Through the support of our planning resources, the subject leader ensures knowledge is good across the science teaching. Key vocabulary is focused upon and national curriculum learning objectives for each lesson are clearly stated on the resources. Every year, Manuden taken part in Science week and have a day solely focused around a theme and science learning and activities.

IMPLEMENTATION OF.....

Subject Leadership

The subject leader has an interest in the subject. She ensures that all staff have access to the curriculum map and teaching resource 'Collins Connect'. She ensures that resources are kept up to date. Knowledge organisers have been created to support the teaching on each unit and show key vocabulary and progression.

Equitable Delivery

All children are given access to the Science curriculum,

Assessment

Formative assessment takes place during the lesson to help ensure children are working within challenging groups and activities. At the end of each unit of science (typically a half-term), teachers use the Manuden assessment foundation framework to assess whether children are working towards, at and above age-related expectations. Children are assessed against the National Curriculum and our school Milestones.

During the lesson children are taking part in either a 1,2 or 3 star challenge. This is the success criteria for the lesson. Children's learning is assessed to see whether it's a 1, 2 or 3 star challenge they have achieved in working towards the learning objective.

Planning the progression model

We have a whole school curriculum map. Curriculum maps are shared in classes to see what has been taught before. Where topics are revisited, prior knowledge and learning is built upon and embedded 'Collins Connect' resource is used throughout the school. Every unit has knowledge organisers with a progression of key vocabulary and teaching area on.

Breadth and Depth

A broad and deep curriculum is offered, with many opportunities for practical Science. This is shown on our whole school science curriculum map. Planning includes opportunities for children to exceed their age-related expectations through the use of our star challenges. Some visits are linked to Science work e.g. Museum of evolution