



SCIENCE AT MIDDLETHORPE



Our science curriculum is designed to develop curiosity and fascination about the world and enable our children to generate theories based upon their knowledge.



Big Ideas



- **Knowledge** (chemistry, physics and biology)
- **Scientific Enquiry** (theories, hypothesis, prediction, fair testing, summarising results, generalising)
- **Observation records**
- **Critique**
- **Great scientists**



Content and Sequencing



- 2 hours a week
- Content of the National curriculum and current science climate

Topics in FS & KS1

- Nursery and Foundation Stage ask questions about the world and where they live.
- Y1 study seasonal change throughout the year; materials, plants, animals
- Y2 study uses of materials, plants, living things and their habitats, and animals

Topics in KS2

- Y3 study forces and magnets, light, plants, rocks and animals
- Y4 study animals, states of matter, electricity, living things and their habitats and sound
- Y5 study properties & changes of materials, forces, earth and space, all living things and their habitats, and animals
- Y6 study evolution and inheritance, light, living things and their habitats, electricity and animals



Links with English and Maths



- Every lesson is a reading lesson
- High quality texts chosen for English that link with the science units
- Expression of critiques and opinions both orally and in written form
- Statistics



Retrieval Practice



- Knowledge, skills and vocabulary identified
- Knowledge organisers used to support recall and retention
- Low stakes quizzing to develop long term memory
- Key concepts identified (above) are revisited
- Key ideas are investigated by considering what they are and what they are not
- Links across year groups for retrieval of knowledge



Outcomes



- All units begin with an enquiry question which children should be able to answer at the end of the unit
- End of the unit children will complete a task which gives them the opportunity to apply all their scientific skills, knowledge and understanding
- End of unit quiz



Support



Everyone has access to the science National Curriculum.

Support is provided for those learners who require it

Considerations is given for learners who grasp concepts more rapidly