

Science at Grove Academy



Intent

At Grove Academy, Our children access a science curriculum that is rich in scientific enquiry and stimulates an inquisitive mind.

Our Science teaching offers opportunities for children to:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics.
- Develop understanding of the nature, processes and methods of Science through different types of scientific enquiries that help them to answer scientific questions about the world around them.
- Be equipped with the scientific knowledge required to understand the uses and implications of Science, today and for the future.
- Develop the essential scientific enquiry skills to deepen their scientific knowledge.
- Use a range of methods to communicate their scientific information and present it in a systematic, cross-curricular manner, including I.C.T., diagrams, graphs and charts and a variety of written text types.
- Develop a respect for the materials and equipment they handle with regard to their own, and other children's safety.
- Develop an enthusiasm and enjoyment of scientific learning and discovery

Implementation

Curriculum

Science is taught and planned following Pzaz, and adapted to meet the needs of all learners. Science is taught every half term and covers the National curriculum expectations. It is planned in blocks to ensure that children have an immersive and comprehensive learning experience.

Overlearning

Science is progressive and built upon to support retention and recall. Children are encouraged to over learn prior knowledge and this is clearly outlined on Knowledge Organisers.

Key Scientists

Learning about key figures will broaden the knowledge of the children by teaching them about a diverse and multi-cultural range of scientists throughout history and their impact on the modern day.

Vocabulary

We teach explicitly the key vocabulary needed to support the learning from the topic. We send home 'fridge words' every half term to engage parents to support learning. Children are encouraged to use correct scientific vocabulary through explanations, discussions and written work.

Impact

Pupils can call on their prior learning to propel their understanding of Science. They can verbally explain their learning clearly using key vocabulary. Pupils use acquired vocabulary to interpret and convey their understanding of the subject. They are able to record data in a variety of ways and can prove or disprove a hypothesis in a fair and safe manner. Pupils have the confidence and are inspired to further their knowledge.