

New Ash Green Primary School

Science Policy

May 2021

Introduction

Our Science policy follows the National Curriculum from 2014. Science is an integral part of our curriculum. Through scientific enquiry, our pupils will develop a curiosity that will allow them to understand the uses and implications of Science, today and for the future.

Aims

The aims of the National Curriculum are to ensure that all pupils develop a scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics.

Through high-quality Science education, our pupils will:

- Develop an understanding of the nature, process and methods of Science through different types of scientific enquiry.
- Answer questions about the world around them using scientific enquiry.
- Have a positive attitude towards Science and an awareness of its fascination.
- An ability to reason, predict, think logically and to work systematically and accurately.
- Apply their scientific knowledge and understanding to their learning across the curriculum and in real life.

Planning

EYFS

In the Statutory Framework for the Early Years Foundation Stage (2021), children at the expected level of development will:

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- Know similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences.
- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

KS1

The principle focus of science teaching in Key Stage 1 is to enable pupils to experience and observe phenomena, looking closely at the natural and humanly-constructed world around them.

Lower KS2

The principle focus of science teaching in lower key stage 2 is to enable pupils to broaden their scientific view of the world around them. They should do this through exploring, talking about, testing and developing ideas about everyday phenomena and the relationships between living things and familiar environments, and by beginning to develop their ideas about functions, relationships and interactions.

Upper KS2

The principal focus of science teaching in upper key stage 2 is to enable pupils to develop a deeper understanding of a wide range of scientific ideas. They should do this through exploring and talking about their ideas; asking their own questions about scientific phenomena; and analysing functions, relationships and interactions more systematically.

Scheme of Work

At New Ash Green we use the Kent Scheme of Work to plan, deliver and assess our Science lessons.

Assessment

Short Term

Teachers make ongoing assessments through: regular feedback on learning, asking questions and listening to answers, making observations and from pupil's written work.

Medium Term

Termly assessments are carried out across the school after each topic has been taught.

Long Term

At the end of Term 6 the Progression in Skills document is reviewed for each year groups.

Parental Involvement

We encourage parents to be involved by:

- Inviting them into school twice yearly to discuss the progress of their child.
- Inviting parents to come into school to look at their child's books twice a year.
- Providing parents with a termly newsletter which includes information about their child's learning for Science that term.
- Providing parents with a yearly report of their child's achievements.

Inclusion

To make science lessons inclusive, teachers need to anticipate what barriers to taking part and learning particular activities, lessons or a series of lessons may pose for pupils with

particular SEN and/or disabilities. Whilst planning teachers will consider ways of minimising or reducing those barriers so that all pupils can fully take part and learn.

Health and Safety

Pupils should be safe in school. The risk management to keep them safe should be proportionate to the nature of the activities.

Resources and Display

- Each classroom to have a science display that clearly displays key vocabulary for the topic.
- Science cupboards organised in to topics for the whole school to access, these resources are updated when required.

Science Leader

The role of the Science leader is:

- To lead the development of Science throughout the school.
- To monitor the planning, teaching and learning of Science.
- To provide all teachers will support and training.