



Northfold C.P.School Science Curriculum Statement



Intent

At Northfold, we aim to give all pupils a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them think scientifically. This will help them to gain an understanding of scientific processes and of the uses and implications of science both now and in the future. Scientific enquiry skills are embedded into each topic the children study and these are then revisited and developed throughout their time at school. During lessons, the children will have the opportunities to read and access age-related texts.

Through the teaching of Science, Northfold intends to enable children to:

- retain and develop their natural sense of curiosity about the world around them;
- ask and answer scientific questions;
- plan and carry out scientific investigations, using equipment, including computers correctly;
- know and understand the life processes of living things;
- know and understand the physical processes of materials, electricity, light, sound and natural forces;
- know about the nature of the solar system, including the earth;
- evaluate evidence and present their conclusions clearly and accurately.

The details of the sequence of the curriculum builds upon the knowledge and skills and can be found in a separate skills and progression document.

Implementation

At Northfold, we ensure high standards of teaching and learning in science and we implement a curriculum that is progressive throughout the whole school.

The overall planning for science is a process that all teachers are involved in. As a result of this we ensure that the school gives full coverage of Understanding of the World within the EYFS Framework and the National Curriculum programmes of study for Science 2014.

Science teaching at Northfold involves adapting and extending the curriculum to match all pupils' needs. Where possible, Science is linked to class topics but where this is not possible, it is taught as discrete units and lessons to ensure coverage. The use of the outdoor area and classroom is also encouraged.

Teachers plan to suit their children's interests, current events, their own teaching style, the use of any support staff and the resources available. Plans may change at any time to reflect this.

As a staff, we make sure that all children are provided with rich learning experiences that aim to:

- Prepare the children for life in an increasingly scientific and technological world today and in the future.
- Help children acquire a growing understanding of the nature, processes and methods of scientific ideas.
- Help develop and extend children's scientific concept of their world.
- Build on their natural curiosity and developing a scientific approach to problems.
- Encourage open-mindedness, self-assessment, perseverance in developing their skills
- Develop the use of computing in investigating and recording.
- Make links between science and other subjects.

The staff use key scientific language that is modelled and taught throughout lessons enabling the children to be familiar with and use scientific vocabulary accurately. We strive to provide exciting, hands on and practical experiences for all children at Northfold, and in turn, this will help promote independent learning, curiosity and a love for enquiry and knowledge.

Impact

The impact of the Science curriculum is that we aim for our children to achieve their full potential and marvel at the awe and wonder of how science emulates throughout every aspect of our daily lives.

The impact and measure of this is to ensure children not only acquire the appropriate age related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

We want the children to recall the rich learning experiences they have been provided with and know that each new taught concept provides a new, or builds on an existing, learning block. By the end of Year 6, the children are then able to transfer this into their future education journey.

Standards in science, to ensure the maximum impact, are monitored in a variety of ways: Book scrutinies, professional dialogue, lesson observations and learning walks. The School Governors are informed of standards and progression of the subject annually.