



<b>Headteacher</b>	Summer 2022
<b>Review</b>	Summer 2024

# Woore Primary and Nursery School Science Policy

## Introduction

This policy outlines the teaching, organisation and management of science taught at Woore Primary and Nursery School. The school's policy for science is based on the New Primary Curriculum which is statutory from September 2014.

## Teaching Science

At Woore Primary and Nursery School we believe that the best science teaching fosters and develops pupils' curiosity in the subject whilst also helping them to fulfil their potential. For our pupils to achieve well in Science, they need to acquire the necessary scientific knowledge and also be able to enjoy the experience of engaging and purposeful scientific enquiry in order to help them to answer scientific questions about the world around them.

## The New National Curriculum 2014 states why we teach Science in school:

'A high-quality Science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics...through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.'

## Aims

Through high-quality Science teaching, we aim to help our pupils understand how major scientific ideas have played a vital role in society. Moreover, we aim to prepare our pupils for life in an increasingly scientific and technological world.

## We aim to do this by:

- Delivering high-quality, interesting and engaging Science lesson;
- Using scientific contexts to develop and consolidate cross curricular skills in English, Mathematics and Computing;
- Teaching Science in a global and historical context; including the contributions significant scientist from a range of cultures;
- Developing and extending pupils' scientific knowledge and understanding;
- Developing pupils' ability to work scientifically and involve pupils in planning, carrying out and evaluating investigation;
- Developing pupils' scientific vocabulary and ability to articulate scientific concepts clearly and precisely;
- Ensuring that all pupils are appropriately challenged to make good progress in Science.

## Teaching and Learning

At Woore Primary and Nursery School, teachers plan and deliver high-quality and engaging Science lessons incorporating a range of teaching and learning styles. At Woore Primary and Nursery School teachers will provide opportunities for pupils to:

- Learn about science, where possible, through first-hand practical experiences;
- Develop their research skills through the appropriate use of secondary sources;
- Work collaboratively in pairs, groups and/or individually;
- Plan and carry out investigations with an increasing systematic approach as they progress through the school;
- Develop their questioning, predicting, observing, measuring and interpreting skills;
- Record their work in a variety of ways e.g. writing, diagrams, graphs, tables;
- Read and spell scientific vocabulary appropriate for their age;
- Be motivated and inspired by engaging and interactive Science displays which include key vocabulary and relevant questions;
- Learn about Science using the outdoor learning environment.

## **Planning**

- Science in the Early Years Foundation Stage is planned using the Early Years Curriculum 'Understanding the World'.
- Key Stage One and Two plan using the New National Curriculum (2014).
- All Science lessons have a focussed learning objectives and clear differentiation to ensure that pupils make at least good progress.
- 'Working Scientifically' is embedded throughout the areas are learning across the school; this focuses on the key aspects of Scientific Enquiry which enables pupils to investigate and answer scientific questions.
- Areas of learning across the school ensure that statutory requirements are being covered through the specific disciplines of biology, chemistry and physics.
- Please refer to the long term plan for details of the specific areas of learning covered in each year group over the year.
- Teachers draw upon a range of different digital resources to support progression and lesson planning (for example Planbee units).

## **Assessment**

- At present, we use the pupils learning objectives, Science books and in lesson work to record formative assessment of pupils understanding formally. This in turn will inform planning and teaching.
- Summative assessments are completed once a unit of work is completed through a variety of different methods, for example, Kahoot quizzes and end of unit quizzes.
- Knowledge is checked across a series of lessons, using small 'POP' tasks to ensure knowledge is being retained and embedded.
- In EYFS teachers assess scientific knowledge and understanding against the 'Development Matters' statements within 'Understanding the World'. At the end of reception, scientific knowledge is assessed through the Early Learning goals.
- Teachers provide quality feedback to pupils' (verbal or written) which clearly identifies how they might need to improve (next steps).
- At present teachers provide an annual teacher assessment result and pupils' progress is tracked against the National Curriculum levels for Key Stage One and Two.

## **Monitoring**

- Planning and work book scrutiny as well as pupil voice questionnaires are carried out by the Science subject coordinator and feedback is given to teachers at an appropriate time.

## **Health and Safety**

- Teachers must plan safe activities for Science and complete a risk assessment if necessary.

- Teachers and teaching assistants need to be aware of health and safety procedures when using equipment/food in science lessons.
- Pupils must be aware of the need for personal safety and the safety of others during Science lessons.

## **Inclusion**

At Woore Primary and Nursery School teachers ensure that they adopt an inclusive approach to their Science planning and teaching; ensuring that pupils of all abilities and backgrounds have an equal opportunity to make good progress and enjoy Science.