

Wigginton Primary School



Science Policy

Rationale/key principles:

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. We offer children opportunities to understand the world around us and develop an enquiring mind. Our science encourages children to ask questions about everyday life and the world around us, satisfying this curiosity with knowledge. The 'working scientifically' element of the National Curriculum is embedded in all teaching alongside the 'knowledge' linked to each topic.

The learning and teaching of science at Wigginton Primary School aims to promote science as a core subject and is taught on a weekly basis. It is seen as a practical subject that needs to be taught in a practical way (where appropriate) to stimulate curiosity, discussion and investigation. The teaching and learning of science is linked to real world experiences and people and encourages children to develop an understanding and enquiring mind. Children are exposed to a diverse range of scientists both past and present, understanding the links between what they learn at school and future careers.

In our school we aim for:

- Pupils to develop their understanding of **scientific knowledge and conceptual understanding** through biology, chemistry and physics.
- Pupils to develop their ways of working scientifically throughout their school career, building upon skills gained from previous years,
- Pupils to develop their understanding of **the nature, processes and methods of science** through a range of scientific enquiry techniques.
- Pupils to be equipped with scientific knowledge in order to understand **the uses and implications** of science today and for the future. This includes seeing the value of science in their own lives and the wider world, including the global impact.
- Pupils to enjoy the challenges of learning about science and gain independence.
- Children will understand that science and STEM can lead to a multitude of careers and can be pursued as hobbies at any age.

In order to achieve our aims:

- We will plan active and thought provoking experiments and tasks, which enable children to further develop their scientific enquiry skills.
- The science curriculum follows the programme of study set out in the National Curriculum; this is arranged in a series of units which are planned over a two-year cycle.
- Our curriculum follows the progression of subject knowledge and scientific enquiry.
- We will follow the school's approach to teaching and learning.
- We will use effective vocabulary and explanation to further understand scientific concepts and reduce misconceptions. This vocabulary progresses as the children move through the school.

To evaluate our effectiveness:

- The subject leader will monitor the assessments and outcomes over the year in order to feed into subsequent units of work.
- The subject leader will monitor attainment and progress on an annual basis.
- The subject leader will produce and implement an annual action plan to develop the subject.
- The subject leader will take part in book scrutiny's and lesson observations to support staff and impact on future training.
- The subject leader will be part of the local science network and be up to date with the latest training and requirements.
- We will follow the school's assessment policy.

Wigginton Primary School also has vision with a set of principles which have been decided by both teachers and children:

Vision: At Wigginton School, every child is a scientist. They explore, discover and investigate the world around them and understand the role science plays in their lives. Science is always educational and enjoyable.

Principles:

- Children are excited about science. Our lessons are inclusive, engaging, and challenging.
- Children are inquisitive and curious, using scientific enquiry to ask and answer questions.
- Children share, test and explore together but also use their independence to develop, reflect and evaluate ideas.
- Children are risk takers, using their metacognition skills to see problems as challenges and opportunities.
- Children are practical scientists who carry out their own observations and investigations.

- Our school uses high quality resources and promotes strong scientific vocabulary.
- We have many scientific opportunities in our community such as trips, visitors and clubs.
- We are the scientists of the future.

Date Ratified:

Signed: _____ **Headteacher**

Signed: _____ **Chair of Governors**