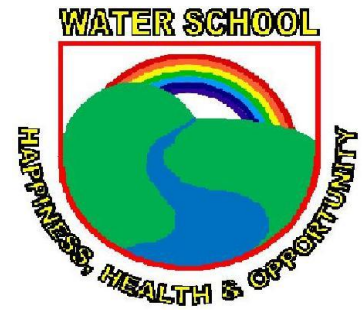


Member of staff responsible: Miss Michelle Launder

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Science Policy 2024 - 25

*“The important thing is to never stop
questioning”
Albert Einstein*

MISSION STATEMENT

At Water School our aim is to teach to inspire, motivate and nurture the next generation of creative and critical thinkers. We work in partnership with parents and the community to achieve the highest standards. Our main goal is to encourage our children to be resilient, respectful and independent learners, who are equipped for lifelong learning. Through stimulating, safe learning environments and excellent opportunities to succeed in and out of the classroom, we encourage children’s progress and achievements.

AIMS

At Water Primary School, we believe that a high-quality science provides the basics for understanding the world through biology, chemistry and physics. Science is continually developing and is vital to the world’s future, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. We aim to inspire children through thought provoking questions and experiments which develop excitement and curiosity about the world around us as well as helping our children acquire a growing understanding of the nature, processes and methods of scientific ideas.

The national curriculum for science aims to ensure that all pupils:

- 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 science enquiries that help them to answer scientific questions about the world around them.
- Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

CURRICULUM AND SCHOOL ORGANISATION

The programmes of study for science are set out year-by-year for key stages 1 and 2 in the national curriculum.

Class teachers are responsible for ensuring that all of the relevant statutory content is covered and science is taught throughout school, with all year groups being taught separately. Teachers are to use STEM planning which provide high quality resources and child-led, interactive activities. Each lesson starts with a 'Big Question' which allows children to use their scientific skills. The Planning Grid below sets out the 'Water Curriculum'.

SCIENCE PLANNING GRID PER YEAR GROUP

Water Primary School Long Term Plan – Science – 2024/25						
Biology Chemistry Physics	Autumn		Spring		Summer	
EYFS	<p style="text-align: center;">The Human Body</p> <p>ELG Explore the natural world around them, making observations and drawing pictures of animals and humans.</p> <p>Wonder – Sensory trail</p> <p>Provision – Senses area, animals, basic body parts. Looking at bugs – closely observing. Mirrors – drawing selves/each other.</p> <p>PLAN A FARM TRIP</p>	<p style="text-align: center;">Animals</p> <p>ELG Explore the natural world around them, making observations and drawing pictures of animals and humans.</p> <p>Wonder - Ducklings/chicken</p> <p>Provision – small world, role play, habitats</p>	<p style="text-align: center;">Scientific Enquiry</p> <p>ELG Making observations.</p> <p>Know some similarities and differences between the natural world around them and contrasting environments.</p> <p>Understand some important processes and changes in the natural world around them – climate change.</p>	<p style="text-align: center;">Plants</p> <p>ELG Explore the natural world around them, making observations and drawing pictures of plants.</p> <p>Wonder – data collection – plant hunt – tally chart. Bring them back to school etc. Grow beans, plant seeds, watch life cycles of flowers.</p> <p>Provision – creative area – plant related – drawing/painting plants – magnifying glasses.</p>	<p style="text-align: center;">Changes in State</p> <p>ELG Understand some important processes and changes in the natural world around them; states of matter.</p> <p>Wonder – life cycles – order butterflies, mini-beast hunt.</p> <p>Provision – messy play, sand and water, conkers – comparing – smooth and spiky.</p>	<p style="text-align: center;">Changes in State</p> <p>ELG Understand some important processes and changes in the natural world around them; states of matter.</p> <p>Wonder – ice investigation – melting, freezing, vapour.</p> <p>Provision – messy play, sand and water, conkers – comparing – smooth and spiky.</p>
<p>To discuss David Attenborough throughout the year (our class Scientist) linked to caring for the world around them (plants and animals).</p> <p>EYFS - Seasonal Change/plants/scientific enquiry</p> <p>To be covered for the whole year – floor book to evidence – regular seasonal walks/forest school ELG - Explore the natural world around them, making observations and drawing pictures of plants.</p>						
Year 1	<p style="text-align: center;">Animals including – Ourselves</p>	<p style="text-align: center;">Animals including – Our Pets</p>	<p style="text-align: center;">Scientist Enquiry – to work on Working Scientifically Skills</p> <p>NC - Asking simple questions and Recognising that they can be answered in different ways, observing closely, using simple equipment performing simple tests identifying and classifying, using their observations and ideas to suggest answers to</p>	<p style="text-align: center;">Plants</p>	<p style="text-align: center;">Everyday Materials</p>	<p style="text-align: center;">Everyday Materials</p>

			questions gathering and recording data to help in answering questions.			
Year 1 - Seasonal Change/plants/scientific enquiry To be covered for the whole year – floor book to evidence – regular seasonal walks/forest school/field trips						
Year 2	Scientist Focus – Super Scientists – Plan Bee	Animals including Humans	Living Things and their Habitats	Plants	Uses of Everyday Materials	Uses of Everyday Materials
Year 3	Scientist Focus – The Unforgettable Scientists of America? – Plan B	Animals including humans	Rocks	Plants	Light	Forces and Magnets
Year 4	Scientist Focus – What do Scientists Do? – Plan Bee	Animals including humans	Living Things and their Habitats	Electricity	States of Matter	Sound
Year 5	Scientist Focus - Great British Scientists – Plan Bee	Animals including humans	Living Things and their Habitats	Earth and Space	Properties and Changes in Materials	Forces
Year 6	Scientist Focus – The Science of Sport – Hamilton	Animals including humans	Living Things and their Habitats	Electricity	Light	Evolution and Inheritance

ASSESSMENT, RECORD KEEPING AND RECORDING

Assessment is generally the responsibility of the class teacher and is used to:

- Plan future teaching and learning.
- Provide summative information for parents and teachers.

A range of assessment techniques is used including:

- Teacher observation of children working.
- Discussion with and questioning of pupils.
- Marking and evaluation of any written work.
- Evaluation of completed work (using learning journeys or Balance wheel) – by the children as well as the teacher.

DISPLAYS

It is the responsibility of all teachers to ensure that there is a display in each classroom linked explicitly to the current Science topic within class. These should be referred to during lessons and should be updated in a similar style to the working walls adopted in English and Maths. Key words relating to the topic should be displayed.

EQUAL OPPORTUNITIES

It is the responsibility of all teachers to ensure that all pupils, irrespective of gender, ability, race and social circumstance, have access to the Science curriculum and make the greatest progress possible.

SPECIAL EDUCATIONAL NEEDS / INCLUSION

The school will work to ensure that all pupils including those with special educational needs are provided with an appropriate Science curriculum. In order to achieve this, teachers will work to:

- Set suitable learning challenges and scaffold learning.
- Respond to pupils' diverse learning needs.
- Overcome potential barriers to learning and assessment for individuals and groups of pupils.

This policy is in line with other school policies and is a true reflection of the Science provision offered at Water Primary School.

Miss Michelle Launder
Science Lead
December 2024