



Science at Wallop Primary School

Intent

At Wallop Primary School, the Science curriculum intends to capture, develop and extend children's natural excitement and curiosity about the wonderful world around them.

Children will learn what it is to 'be a scientist', developing scientific skills and knowledge, laying the foundations for making sense of the world today and in the future. Children are encouraged to raise their own questions for scientific enquiry, investigating practically, making meaningful links and drawing conclusions.

We firmly believe that first-hand experience is at the heart of scientific learning and, therefore, practical activities are used at every opportunity, with children developing the skills of 'working scientifically'.

Across the school, our curriculum is integrated wherever relevant; children are expected to apply mathematical knowledge to their understanding of Science, particularly when collecting, presenting and analysing data. They are also expected to use English skills alongside scientific vocabulary, articulating ideas and concepts clearly.

Implementation

Discrete Lessons

- Teachers plan units of work guided by the Science Hampshire Advisory service that will develop the children's understanding in order to secure good substantive knowledge in the subject. This ensures full coverage of the National Curriculum.
- Teachers planning includes both a substantive and disciplinary approach to science. This allows children the increasing opportunity to apply knowledge in an appropriate but inventive way.
- In order to enrich the children's learning, lessons are planned to incorporate experimental activities that stimulate curiosity and practical understanding.
- At the commencement of each lesson, regular reviews of previous units of study are implemented. This reinforcement is essential for consolidating knowledge and aiding retention. Children are encouraged to utilise tables and graphs to record their results, which not only aids in the visual representation of data but also enhances their analytical skills.
- Students are provided with a structured template to assist in the planning of their investigations. This template supports their understanding of the core principles of fair testing and controlling variables in experiments.
- Students will develop their skills in Science by focusing on core components: comparative and fair testing; making observations over time; using secondary sources; seeking patterns and identifying and classifying.



- Health and safety practices within our Science lessons are paramount to ensuring a safe learning environment for all students. Adhering to the guidance provided by CLEAPSS, we are equipped to conduct risk assessments that identify potential hazards and establish appropriate control measures. Additionally, the use of Hazard cards plays a vital role in providing clear, accessible information regarding specific chemicals and procedures. This systematic approach not only fosters a culture of safety but also enhances students' understanding of safe laboratory practices, ultimately promoting their well-being and facilitating effective learning outcomes in Science.

EYFS

Our children engage with science through hands-on exploration and inquiry-based activities. They participate in investigations that encourage observation, prediction, and experimentation. Through outdoor play and interaction with natural elements, children develop an understanding of the world around them. They engage in activities such as classifying objects, examining life cycles, and conducting simple experiments to foster curiosity. Additionally, their learning is enhanced through guided discussions that develop vocabulary and concept knowledge. By facilitating a stimulating environment, practitioners support children in making connections and developing a foundation for scientific thinking and inquiry.

Assessment

- Assessment is drip-fed through each unit of work, enabling misconceptions to be addressed in a timely manner. This ongoing evaluative process ensures that learners are supported in their educational journey, allowing for immediate intervention where necessary.

Impact

Children leave Wallop Primary School as enthusiastic, confident and competent scientists who have a secure knowledge of the world around them as well as scientific skills which they can apply to new learning. Our curriculum provides them with a strong scientific foundation which they are then able to build on beyond school and into adulthood.

At Wallop Primary School, the impact of our computing curriculum will be evidenced through:

- School Internal Monitoring:
 - Learning walks and lesson observations
 - Book looks
 - Planning scrutinies
- Pupil Voice
 - Pupil conferencing
 - Pupil surveys