

Science Subject Statements

Intent:

At Harnham Infant School we believe that a high quality Science education provides the foundations for our children to 'enjoy, explore and learn'. We aim to provide rich and meaningful scientific experiences to enable all children to create a strong understanding of the world around them. We aim to enable all children to think scientifically, gain an understanding of scientific processes and also to understand the impact of Science throughout history, therefore seeking to understand its implications for the future.

At Harnham Infant school we understand that practical and meaningful experiences are key to inspire and instil scientific knowledge, therefore it is our aim that all children should have access to our 'Science Lab' on site. Our Science Lab provides children with an investigative space in which to explore each topic and practice scientific methods using a range of equipment and resources. Enquiry skills are explicitly taught and built on within each lesson, with children encouraged to record their findings on our scientific proformas or within their class Science Floor Books.

Harnham Infant School also aims to provide natural scientific experiences through the use of our Forest School area, in which children are given the opportunity to explore habitats, seasonal changes and changes in materials.

The experiences that Harnham Infant School provide allow children to be immersed in awe and wonder, which encourage a wide breadth of scientific vocabulary and development of their scientific enquiry skills.

Implementation:

In order to ensure the high quality Scientific teaching and learning is achieved, we have implemented a progressive curriculum throughout our school. Our progressive curriculum is used to ensure full coverage of 'The National Curriculum Programmes of Study for Science' and 'Understanding the World' for Early Years. All teachers follow the progressive statements when planning to ensure that each year children's knowledge and experiences are consolidated and then built upon.

At Harnham Infant School Science is linked to class/year group topics where possible to ensure purposeful learning. Scientific learning in the classroom is then explored in the Science Lab or in Forest School to ensure meaning is provided. Science is taught consistently, with at least one Science lesson a week and one Forest School Session a week. In Early Years children are provided with additional scientific experiences in their outdoor area. Children are also provided with opportunities to explore and enhance their scientific knowledge and understanding daily. At Harnham Infant School all year groups are committed to providing an inspiring environment that enables children to engage in deep independent learning in all year groups. Within each class children are provided with opportunities to use scientific language and methodology through careful environment planning.

All children at Harnham Infant School are given the opportunity to record their scientific learning through the use of school wide proformas and Scientific Floor Books. Children are encouraged to take ownership of recording their knowledge on these documents to ensure inclusion of all at a differentiated level. Science Floor books are regularly shared by staff to celebrate and evaluate learning to ensure an ever improving curriculum.

At Harnham Infant School we ensure that all children are provided with rich learning experiences that aim to:

- Prepare our children to be life-long learners in an increasingly scientific and technological world.
- Build on our children's natural curiosity and encourage a scientific approach to problems.
- Encourage resilience, independence and creativity.
- Teach the skills of investigation, including: observing, measuring, predicting, hypothesising, experimenting, explaining and evaluating.
- Develop the use of scientific language, recording and methods.
- Make links between Science and other subjects.

Impact

Our Science curriculum is of a high standard, with well thought out planning in order to demonstrate clear progression. We measure the progress of our children through observations and termly assessment against skills taught.

Our curriculum means that all children will have:

- A rich scientific vocabulary that enables them to talk in detail about their learning.
- The ability to ask informed questions and use their curiosity to lead enquiry.
- The ability to demonstrate a wide variety of skills linked to investigation, including observing, measuring, predicting, hypothesising, experimenting, explaining and evaluating.
- Exciting and engaging experiences that leads to a thirst of learning more.