KINGS HILL SCHOOL
PRIMARY & NURSERY

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Science Policy

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SCIENCE POLICY

Introduction

At Kings Hill School, we are committed to providing all children with learning opportunities to engage in science. This policy reflects our School's values and philosophy in relation to the teaching and learning of science. It sets out a framework within which teaching and non-teaching staff can work, and gives guidance on planning, teaching and assessment.

Aims

- To develop pupils' enjoyment and interest in science and an appreciation of its contribution to all aspects of everyday life.
- To build on pupils' curiosity and sense of awe of the natural world.
- To develop children's science capital by promoting initiatives that encourage all children to think that science is relevant and important to their lives, now and in the future.
- To use a planned range of investigations and practical activities to give pupils a greater understanding of the concepts and knowledge of science.
- To introduce pupils to the language and vocabulary of science.
- To develop pupils' basic practical skills and their ability to make accurate and appropriate measurements.
- To develop pupils' use of computing in their science studies.
- To extend the learning environment for our pupils via our environmental areas and the locality.
- To promote a 'healthy lifestyle' in our pupils.

Intent

At Kings Hill School, our intent is to deliver a broad and progressive curriculum that enables our children to explore, discover and challenge the world around them. Science teaching at Kings Hill School aims to provide all children with a strong understanding of the world in which we live, whilst acquiring specific skills and knowledge to support their scientific thinking.

Learner Profiles

We have developed six learner profiles that fundamentally underpin our curriculum aims and design. These profiles encompass our values-based ethos, reflect the strengths of the school and are responsive to the needs of our community and the ever-changing wider world around us:

- *I am a good communicator.*
- *I am knowledgeable.*
- *I am an innovator.*
- *I am an individual.*
- *I am a good citizen.*
- *I am emotionally intelligent.*

Values –Based Education

The school has six core values developed by staff, pupils, parents and Governors. These six values represent the basis of values-based education at Kings Hill School and all other values are linked to them throughout the year such as compassion, loyalty, happiness, humility and trust. Our school values draw attention to key behaviours needed for children to become excellent learners and citizens. These are specifically taught through our curriculum and assembly programme.

Implementation

We are committed to implementing this vision by providing stimulating, practical experiences for all children in the school, weekly. Consequently, promoting a responsibility for independent learning, fuelling their natural curiosities and nurturing a love for scientific enquiry and knowledge. Lessons will be sequenced, demonstrating progression and cohesion throughout each topic. Learning will be enhanced and enriched through the use of school trips and visits from scientific experts. Children will have the opportunity to work collaboratively, fostering scientific discussion and sharing knowledge and experiences. Classroom displays will exhibit key questions and key vocabulary, ensuring children are exposed to these.

Children will use a range of skills including observations, planning and investigations, and encouraged to question and explore the world around them. They will have the opportunity to learn about key scientists linked to their topics, and how science has developed over time through the discovery of life changing scientific theories.

Impact

The impact of the Science teaching, across the school, will be regularly monitored and resources will be kept up-to-date to support children in their learning of Science. By offering an engaging and inclusive Science curriculum, all children at Kings Hill School will become confident learners who continue to explore and discover in the world around them.

Learning Environment and Wider Curriculum Opportunities

A rich learning environment supports our curriculum. Science displays support children's learning in every classroom; these include key information, vocabulary, pictorial representations and key questions to encourage scientific discussion and enquiry related to the topic being taught. The school's Science Vision, which was compiled by staff and children, is permanently displayed in every classroom to promote the importance of science in our school.

Our outside learning area plays a key part in delivering our science curriculum. We use the outdoor area regularly to ensure key skills are related to real life experiences so the learning is relevant, such as exploring habitats and carrying out scientific investigations. Our science themed weeks, working with the wider community, participating in workshops with STEM ambassadors, local secondary schools, and visiting science specialists are ways in which we further enhance our curriculum.

Equal Opportunities and Inclusion of all learners

All children have equal access to the science curriculum and its associated practical activities. The SLT, Class Teachers and TAs at Kings Hill School are responsible for ensuring that all children, irrespective of gender, learning ability, physical disability, ethnicity and social circumstances, have access to the whole curriculum and make the greatest possible progress. Where appropriate, work will be adapted to meet pupils' needs and, if appropriate, extra support given. Pupils that are more able will be given suitably challenging activities. Gender and cultural differences will be reflected positively in the teaching materials used.

Health and Safety

Pupils will be taught to use scientific equipment safely when using it during practical activities. Class Teachers will check equipment regularly and report any damage, taking defective equipment out of action. A simple risk assessment will be carried out for all practical activities by using Science risk assessments and raising any concerns with the Science Leader/Head teacher.

Roles and Responsibilities

It is the role of the Subject Leaders to ensure that along with SLT the subject is monitored using a range of processes to inform the development of science teaching and learning. Outcomes are shared with colleagues and appropriate actions are implemented. It is role of the Subject Leaders to identify and support the training needs of colleagues.

The Subject Leaders engage with professional development and learning and impart their interest in science to the school community. It is the role of the Subject Leaders to ensure that pupil voice

is valued and responded to and there is an understanding of the importance and value of science amongst the staff and children.

It is the school's role to provide effective support for the Subject Leader's development of science.

It is the responsibility of all staff to inform Subject Leaders of resources that need replenishing or are required to enhance the teaching and learning of science.

Review

This policy is monitored through:

- Regular scrutiny of children's work
- Regular monitoring and evaluation of planning
- Evaluation and analysis of assessment data
- Lesson observations to monitor the quality of teaching and implementation of planning
- Pupil interviews and questionnaires
- Teacher feedback