



Glen Hills Primary School

Science

Statement of Intent

Intent

Glen Hills Primary School believe that delivering a high quality Science education to all children, provides a strong foundation for understanding the world around them whilst developing a sense of excitement and curiosity about natural phenomena. At the same time, science teaching at our school aims to give all children opportunities to develop specific skills and knowledge to help our pupils think scientifically, gain an understanding of scientific processes, develop their own ideas and an understanding of the uses and progress of Science, today and for the future.

At Glen Hills Primary School, scientific enquiry skills are embedded in each topic the children study and these topics are revisited and developed throughout their time at school. Topics are taught in Key Stage One and studied again in further detail throughout Key Stage Two. This model allows children to build upon their prior knowledge, revisit and revise their learning and increases their enthusiasm for the topics whilst embedding this procedural knowledge into the long-term memory.

Children are immersed in scientific vocabulary, which aids learners' knowledge and understanding not only of the topic they are studying, but of the world around them. This vocabulary is taught and built up, and effective questioning to communicate ideas is encouraged. We intend to provide all children, regardless of ethnic origin, gender, class or disability, with a broad and balanced Science curriculum.

Teachers at Glen Hills Primary School aim to nurture a love for the natural world, excitement for future possibilities in Science and provide many opportunities for pupils to develop a passion for Science.

Implementation

In ensuring high standards of teaching and learning in Science, Glen Hills Primary School implements a curriculum that is progressive throughout the school. Teachers are familiar with previous and subsequent year groups' contents in order to link learning and build on previous knowledge.

Planning for Science is a process in which all teachers are involved to ensure that the school delivers learning that is as ambitious as, 'The National Curriculum programmes of study for Science 2014' and 'Understanding the World' in the Early Years Foundation Stage. Medium Term Plans link directly to progression documents in both knowledge and working scientifically. Science teaching involves adapting and extending the curriculum to match all pupils' needs. In Key Stage One, where possible, Science is linked to class topics. In Key Stage Two, Science is taught in discrete weekly units. When there is a natural link between a Science topic and other curriculum areas, teachers endeavour to work in a cross-curricular manner. Teachers plan to suit their children's interests, current events, their own teaching style, the use of any support staff and the resources available. Trigger and End of Topic

assessment sheets are used at the start and end of each Science topic to allow children and teachers to assess progression in knowledge, understanding and vocabulary across a topic. Classrooms have Science walls, with key topic vocabulary displayed to use within lessons. Science is celebrated regularly across Glen Hills Primary School via Achievement Award certificates, Science displays around school, National Science Week activities and science clubs (such as The Animal Watch Club and Gardening Club).

We ensure that all children are provided with rich learning experiences that aim to:

- Prepare our children for a life in an increasingly scientific and technological world
- Help develop and extend our children's scientific concept of their world
- Build on our children's natural curiosity
- Develop children's scientific approach to problems and enquiry skills
- Encourage children to develop their character muscles during Science learning
- Develop the use of scientific language, recording and techniques
- Make links between Science and other subjects

Impact

Our Science curriculum at Glen Hills Primary School is high quality, well thought out, engaging and planned to demonstrate progression. The impact of our Science planning, teaching and outcomes are scrutinised termly to ensure that standards remain high across all year groups and children experience quality science teaching. Impact is also measured through End of Topic assessments, oral responses, pupil discussions about their learning, written work and low-stake quizzing. Children at Glen Hills acquire both appropriate age related knowledge and skills which equip them to progress from their starting points, and within their everyday lives. All children will have a wider variety of skills, linked to both knowledge and understanding, and scientific enquiry skills, a richer vocabulary which will enable to articulate their understanding of taught concepts, and higher aspirations which will see them through to further study, work and a successful adult life with a passion for Science and the world around them.