



Science at Holbeton Primary School

Intent

At Holbeton Primary School, we have designed our science curriculum with the intent that our children will develop an in-depth understanding of the world around them and an understanding of how major scientific ideas have played a vital role in society, to prepare them for life in an increasingly scientific and technological world. We recognise that science plays a vital role within our school community, with many parents and carers having professional careers within the medical field. We therefore embrace their expertise and recognise the valuable contributions that families can make to the delivery of an engaging science curriculum. Our aim is to build science capital for all our children, regardless of their background and starting point so that they are inspired to continue to use science in their everyday life, future education, and careers.

We will deliver a Science Curriculum that:

- Builds upon prior knowledge and a progression of skills to ensure all children have a secure understanding and knowledge of key science concepts.
- Develops creativity and challenges all.
- Inspires and excites our children through engaging practical sessions which are enriched where appropriate with visits and visitors.
- Will develop aspirational learners with an awareness of the key role that science plays within our community and the world and the opportunities that this creates for future careers.
- Encourages our children to be self-motivated, independent, curious, and resilient learners by developing inquiry-based skills and sessions.

Implementation

Our curriculum is based on the National Curriculum and is further tailored to meet the learning and developmental needs of the children in our school. We follow a two-year rolling programme to ensure full coverage of the curriculum.

Within the Early Years Foundation Stage, Science is integral to the Early Learning Goal of Understanding the World. Pupils are encouraged to make sense of the natural world and make observations of animals and plants. They also learn about changes in the natural world and changing states of matter.

In Key Stage 1 and 2 each year group undertakes half termly enquiries in science. Each of these enquiries is informed by a detailed Medium-Term Plan which details the key learning objectives, for the unit, vocabulary development, links with prior learning and how this will be developed through the unit, teaching activities and methods of assessment.

We adopt an enquiry focused approach to teaching and learning in Science which develops our pupils as young scientists. The Snap Science scheme of work is used to structure the planning, teaching and formative assessment of Science, and is supplemented by Hamilton Trust and Explorify. Lessons consist of exploring scientific concepts through the five enquiry skills, challenges through activities or questioning, and the use of reflect and review sessions where appropriate. Lessons can be taught weekly.

The 'outdoor classroom' provides a meaningful way to engage children in practical science, giving them experience of collecting and analysing data, and making predictions in the real world. The wider educational benefits of teaching and learning science through fieldwork in the natural and built environments include teamwork, motivation, and its potential to influence positively the choice of science as a future subject of study.

Science Curriculum Overview

	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6
Year 1/2 Cycle A	Module 1 Seasonal Changes	Module 2 Animals incl humans	Module 3 Materials	Module 4 Materials	Module 6 Plants	Module 5 Living Things and their habitats
Year 1/2 Cycle B	Module 1 Living Things and their habitats	Module 2 Materials (choosing)	Module 3 Plants	Module 5 Materials (changing)	Module 6 Plants	Module 4 Animals incl humans
Year 3/4 Cycle A	Module 1 Rocks	Module 2 Light	Module 3 Forces	Module 4 Animals incl humans	Module 5 Plants	Module 6 Plants
Year 3/4 Cycle B	Module 1 States of matter	Module 2 Electricity	Module 5 Sound	Module 4 Animals including humans	Module 3 Environment	Module 6 Living things
Year 5/6 Cycle A	Module 1 Forces	Module 2 Materials	Module 3 Earth and space	Module 5 Materials	Module 4 Plants	Module 6 Animals incl humans
Year 5/6 Cycle B	Module 1 Living Things	Module 2 Evolution and inheritance	Module 3 Light	Module 4 Animals including humans		Module 5 Electricity

Autumn 1 and Spring 3 - Farm School. Summer Term 6 - Beach School