

Influential People:

As part of raising aspirations, and in particular encouraging more girls to consider science and STEM subjects as a career and future study, we take opportunities to look at a range of different people who have influenced the world of science in some way. These are both historical and modern, male and female.

Research Base:

Primary Science Teaching Trust <https://pstt.org.uk/>

HIAS School Improvement (Hampshire)

Teaching and Learning in Science



Hamble Primary School

023 80453298

Information for Parents

By working together we help our
children to succeed.

At Hamble Primary School we are committed to providing the best possible educational outcomes for all children. We aim to ensure that children leave us with the scientific knowledge specified within the National Curriculum:
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/425618/PRIMARY_national_curriculum_-_Science.pdf . This will be taught within the context of enquiry based learning.

The Science Learning Journey at Our School

1. **Knowledge:** What do the children need to know? What previous learning is relevant? Provide the children with appropriate new knowledge.
2. **Generate:** Children use the acquired knowledge and, where possible, access practical resources to help ignite curiosity in order to form enquiry pathways that they may follow.
3. **Plan:** How will children effectively carry out an investigation which will answer their enquiry question? Which specific skill will be explicitly taught through this enquiry?
4. **Do:** Carry out the enquiry and record findings, again ensuring there is a clear specific skill focus.
5. **Review:** Evaluate findings and use them to predict the outcome of an alternative enquiry question. Can children apply their knowledge to suggest plausible results?

Enquiry Based Learning

Science is fundamentally an approach to answering questions about the physical universe. Questions are at the heart of science and therefore learning science. The nature of questions and what makes effective ones is discussed and a technique for encouraging children to generate their own is shared. Richard Aplin, HIAS Science Team

Links with Outdoor Learning Sessions

Wherever possible we aim to link the current area of study in Science to the work the children are undertaking during their Outdoor Learning sessions. This is to provide opportunities for revision and overlearning. The links also serve to encourage the children to make connections between their learning and to apply the knowledge and skills gained in a range of contexts.

Each Science unit will focus on one or more **specific skills**. The skills we teach are:

- **Think critically** to ask questions and generate an enquiry.
- **Make observations and take measurements** and record these appropriately.
- **Use appropriate vocabulary and scientific diagrams** when recording and reporting on findings.
- **Make connections and comparisons**, noticing patterns, changes and relationships.
- **Use scientific evidence** to answer questions or support findings.
- **Think critically** to discuss findings and make suggestions.