Hatherop CofE Primary Science Curriculum

Caring-Believing-Achieving

INTENT

At Hatherop, our aim is that all children engage in a process of enquiry, building up a body of key knowledge and concepts and hands-on enquiries. All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions. Scientific vocabulary for units is taught and built upon, and effective questioning to communicate ideas is encouraged. Concepts taught are reinforced by giving pupils opportunities to engage in practical scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

IMPLEMENTATION:

Science is taught as discrete units to ensure coverage. Due to mixed year group classes in our school, Science units are taught on a 2 year rolling programme for Years 2-6. This ensures progression between Key Stages and ensures topics are covered.

The Early Years Foundation stage (EYFS) aims for children to have an understanding of the natural world around them through exploring, making observations and understanding some important processes and changes in the natural world.

- Every class will have a weekly science lesson for 1 hour
- Plan Bee and Hamilton Planning are used to support teaching and learning
- Lessons are delivered through interactive oral work, practical tasks and investigations and whole class directed teaching
- Knowledge organisers are shared at the beginning of each unit containing prior learning, key vocabulary and relevant diagrams
- Key vocabulary is mapped out to show progression across year groups
- Each unit is assessed using TAPS focussed assessments and are identified in blue in science books

IMPACT:

- Most children will achieve age related expectations in science at the end of their cohort year
- Children will have a wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills
- Children will have a richer vocabulary which will enable them to articulate their understanding of taught concepts
- TAPS assessments are used to support the validity of teacher judgments
- Outcomes can be seen in science books
- Children will know more, remember more and are able to talk about their learning and make connections with other subjects