



Science Implementation Statement

Overall aim: To develop a sense of excitement and curiosity about the world, through the specific disciplines of biology, chemistry and physics so that children can see how science changes our lives and is vital to the world's future prosperity.

The national curriculum in England

Key stages 1 and 2 framework document



Hamilton
supporting teachers

Implementation of Science

Science is taught following the National Curriculum in Key Stage 1 and Key Stage 2 and in Early Years, follows The Understanding of the World part of Development Matters. Topics are mapped out in a long term plan, across the year which is matched to compliment and enrich other areas of the curriculum. Working Scientifically is taught throughout each topic to embed key skills and to prepare children for life in Modern Day Britain.

COLD



GOLD

Sticky knowledge

- Sequence of teaching
- Vocabulary
- Cross curricular links
- Progression through year groups

Links to core skills (language, reading, writing and maths)

- Development of children's vocabulary through new scientific terms
- Opportunities to develop spoken language through asking questions, explaining findings and drawing conclusions. Can be written or oral, recorded on iPads.
- Cross curricular opportunities through topic based texts and genres - technical vocabulary and Gold writes
- Opportunities to develop and apply number, measurement and data handling skills in maths.

How are we meeting the needs of all learners?

- Cold to gold task assessment
- Sequential teaching sequence
- Know, understand evaluate statements
- Differentiation/ Inclusion
- Practical, hands on investigation
- Opportunity to record orally and on iPads as well as in written form
- Scientific graphic organisers available so all children can access and collect data/information.

Opportunities for enrichment

- Curriculum Days
- STEM weeks
- Educational visits and visitors, including STEM Ambassadors
- Opportunities for outdoor learning, through Forest School
- Ozzie 80