

Stukeley Federation – Science Intent, Implementation & Impact Statement

Vision Statement:

*In our inclusive and happy schools, we make sure **everyone** feels welcomed, valued and valuable.*

Our safe and inspiring learning environment helps us work towards achieving our best, in all that we do, so that we can become independent and resilient members of our wider community.

*Our shared **Christian** values give us a foundation of challenge and support, helping to make a positive change in the world, as we strive to create a community of respect and aspiration, preparing everyone for their future.*

Core Values:

Respect – Equality, Tolerance, Understanding

Politeness – Thoughtfulness, Appreciation

Friendship – Caring, Sharing, Love

Honesty – Trust, Fairness, Peace

Responsibility - Quality & Excellence, Cooperation

Resilience – Determination, Patience, Hope

Intent

Science teaching aims to give all children a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically. They will gain an understanding of scientific processes and the uses and implications of science, today and for the future.

We ensure that children work scientifically, and skills are built upon and developed throughout their time at the school so that they can:

- apply their knowledge of science when using equipment
- conduct experiments and investigations
- build arguments and explain concepts confidently
- be familiar with scientific terminology
- continue to ask questions and be curious about their surroundings

Children will be able to effectively communicate their understanding, enabling them to work **cooperatively** with their peers and will become **independent** learners and take **responsibility** for their learning. They will develop **resilience** when dealing with challenging concepts, which can be applied to other aspects of life.

Implementation

We use a clear and comprehensive scheme of work that teaches the aspects of science covered by the National Curriculum. Our curriculum mapping ensures the opportunity for progression in science from EYFS to KS2.

Science sits within our long-term plans, allowing many cross-curricular links. This is to encourage the reinforcing, application and embedding of science learning.

Planning is differentiated so that all children can access learning with an appropriate level of support and challenge. Lessons are sequential, which helps to embed scientific knowledge and skills, building on previous learning. Within the teaching sequence are key assessment questions, identified in lesson plans. These allow teachers to assess children's learning at various points, providing

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opportunities to recap concepts to improve understanding.

Children are taught key scientific vocabulary (Tier 3 words) which enables them to contribute purposefully to class discussions. They complete investigations, allowing for a clearer **understanding** and **appreciation** of science, while gaining the scientific knowledge and skills for each unit.

Our children learn through varied investigations, leading to them being equipped for life to ask and answer scientific questions about the world around them.

Impact

Children will be confident in their knowledge and enquiry skills and will be excited about science. They will be actively curious to learn and see the relevance of their science knowledge to real-life situations, and the importance of science in the real world. Children will know more, remember more and explain more. Progress, enjoyment, engagement and confidence in science will be seen throughout the school.