



Learning & growing together,
taking every opportunity.







ACHIEVE · RESPECT · ADVENTURE

Science Intent Statement

At Newton Poppleford Primary School we meet the aims of the National Curriculum of study and ensure that all pupils build knowledge, work scientifically and develop scientific enquiry skills to achieve success. During science, we encourage children to be curious by providing them with tacit learning experiences where they investigate scientific concepts in an inquisitive and engaging manner. We adopt an evidence-based approach.

Pupils at Newton Poppleford progress through the specific disciplines of science and develop knowledge and conceptual understanding in every year group. Our curriculum is mapped and sequenced so that prior knowledge and understanding is revisited and built upon in subsequent year groups. Metacognitive approaches that enable pupils to plan, monitor and evaluate their learning permeate the science curriculum. These activities include strategies such as mini quizzes, recapping and revisiting knowledge as well as pre-assessment tasks. This enables us to adapt to pupils needs and ensure progression in knowledge and skills.

Science is taught discretely, and is linked across the curriculum where appropriate. 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. We develop children's understanding of the nature, processes and methods of science through direct instruction, investigation and working scientifically – this builds understanding of the uses and implications of science today and in the future.

Working Scientifically and scientific enquiry					
					
Research	Pattern Seeking	Observing (Over time)	Testing	Identifying and Classifying	Problem solving

Specialist vocabulary for topics is taught explicitly and built up over time. Every lesson refers to key vocabulary and children are encouraged to use this in their responses through effective questioning and responsive feedback. Children are scaffolded in this through knowledge organisers, explicit teaching of words in context and definitions. Teachers employ effective questioning so that communication of ideas is encouraged. Knowledge of concepts taught are reinforced by focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

We have a multi-faceted approach to raising and enhancing children's science capital: Our curriculum builds knowledge of how scientists have changed the world and their importance to their world's historical development and future undertaking. Each year group, looks at key individuals and their achievements related to their area of study. We elevate the experience of science through trips and visits from experts who will enhance the learning experience.

Cross curricular links across modules further raise the

profile of the subject.

