



Bingham Primary School – Science

Science Curriculum

The Science curriculum aims to inspire pupils to become curious, inquisitive and analytical thinkers with a broad understanding of the natural world – in other words, to think like scientists. The intention is for pupils to develop the confidence to ask questions, make observations, carry out investigations, record data in a variety of ways and analyse and present their findings. We aim to build an awareness of how science influences everyday life and drives progress in society. The hope is to encourage pupils to become reflective, responsible individuals who use scientific knowledge and skills to make informed decisions and contribute positively to the world around them. The curriculum is designed to be both accessible and ambitious, ensuring all learners' full participation and potential achievement.

The curriculum is taught weekly, with a new unit being delivered every half-term. Every lesson follows a consistent four-part structure: **Recap and Recall, Attention Grabber, Main Event** and **Wrapping Up**. Each lesson begins with a **Recap and Recall** activity that revisits prior learning. This reinforces key knowledge, strengthens long-term memory and helps pupils make connections between previous and new learning. The **Attention Grabber** is a brief, engaging activity designed to spark curiosity and introduce the lesson's focus. The **Main Event** forms the core of the lesson, where pupils engage in activities that develop their understanding of the learning objective. This includes a combination of teacher modelling, guided practice, and independent or collaborative tasks that are carefully adapted to support all learners. The lesson concludes with **Wrapping Up**, a reflective activity that consolidates learning. This may involve reviewing the success criteria, discussing key learning points, or applying knowledge in a different context to assess understanding and encourage deeper thinking.

Science lessons incorporate ongoing formative assessment opportunities, including questioning, retrieval practice and interactive activities, enabling staff to assess understanding in real time and adapt teaching accordingly. Each unit also includes an assessment quiz and a **Knowledge Catcher**, which allow staff to measure pupils' understanding at key points throughout the unit. These assessment opportunities help gauge how well pupils have retained and applied key scientific knowledge and skills over time.

Resources:

Science Curriculum Information	Science curriculum information
Progression of Skills and Knowledge	Skills/Knowledge
Vocabulary Progression	Vocabulary
National Curriculum	National curriculum in England: science programmes of study - GOV.UK
National Curriculum Mapping	Mapping
Curriculum Overview for Parents/Carers	Parent Overview

Bingham Primary School – Science Curriculum Coverage Grid & Planning

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<u>Forces and space: Seasonal changes</u>	<u>Materials: Everyday materials</u>	<u>Animals: Sensitive bodies</u>	<u>Animals: Comparing animals</u>	<u>Plants: Introduction to plants</u>	<u>Making connections: Investigating science through stories</u>
Year 2	<u>Living things: Habitats</u>	<u>Living things: Microhabitats</u>	<u>Materials: Uses of everyday materials</u>	<u>Animals: Comparing animals</u>	<u>Plants: Plant growth</u>	<u>Making connections: Plant-based materials</u>
Year 3	<u>Animals: Movement and nutrition</u>	<u>Forces and space: Forces and magnets</u>	<u>Materials: Rocks and soil</u>	<u>Energy: Light and shadows</u>	<u>Plants: Plant reproduction</u>	<u>Making connections: Does hand span affect grip strength?</u>
Year 4	<u>Animals including humans: Digestion and food</u>	<u>Energy: Electricity and circuits</u>	<u>Materials: States of matter</u>	<u>Energy: Sound and vibrations</u>	<u>Living things: Classification and changing habitats</u>	<u>Making connections: How does the flow of liquids compare?</u>
Year 5	<u>Materials: Mixtures and separation</u>	<u>Materials: Properties and changes</u>	<u>Forces and space: Earth and space</u>	<u>Living things: Life cycles and reproduction</u>	<u>Forces and space: Unbalanced forces</u>	<i>Waiting for unit to be added</i>
Year 6	<u>Living things: Classifying big and small</u>	<u>Energy: Light and reflection</u>	<u>Living things: Evolution and inheritance</u>	<u>Energy: Circuits, batteries and switches</u>	<u>Animals, including humans: Circulation and health</u>	<u>Making connections: Are some sunglasses safer than others?</u>