



Essendon C of E Primary School

# Essendon C of E Primary School

## Our Science Curriculum Statement (Using Kapow)

### Intent

Our Science curriculum aims to develop pupils who are curious, confident, and able to think critically about the world around them. Using the Kapow scheme as a framework, we ensure that children build a secure understanding of scientific concepts through a clear progression of knowledge and skills.

We intend for all pupils to:

- Develop a strong foundation of scientific knowledge across biology, chemistry and physics.
- Become confident scientific thinkers who can ask questions, make predictions, test ideas and draw conclusions.
- Understand the role of science in everyday life and the wider world, recognising its importance in society, technology and the environment.
- Build secure disciplinary skills—observing, measuring, recording, analysing and evaluating—through practical, hands-on learning.
- Develop a sense of excitement and curiosity about natural phenomena and foster a lifelong love of science.
- Know and use appropriate scientific vocabulary with increasing accuracy as they progress.
- Develop resilience, independence, collaboration and critical thinking.

### Implementation

Science is taught following the progression and resources from the Kapow curriculum, ensuring full coverage of the National Curriculum and a consistent approach across year groups.

We implement our curriculum through:

- **A sequenced progression of units** that build on prior learning and support long-term understanding.
- **Practical, enquiry-based lessons** where children explore concepts through investigations, observations and hands-on tasks.
- **The five types of scientific enquiry** integrated regularly: observing over time, pattern seeking, identifying & classifying, comparative & fair testing, and research using secondary sources.
- **Structured assessment opportunities**, including quizzes, concept checks, teacher observation and pupil self-reflection.
- **High-quality resources, videos and animations** from Kapow to support teacher subject knowledge and pupil engagement.
- **Clear vocabulary progression**, with explicit teaching and revisiting of scientific terminology.
- **Cross-curricular links**, especially with maths (data collection), English (explanatory writing) and computing (digital recording).
- **Outdoor learning and real-world contexts** to make science meaningful and experiential.
- **Inclusion and accessibility**, ensuring all pupils can participate through differentiated tasks and adaptive teaching.

## Impact

Through this curriculum, pupils develop secure scientific knowledge, confidence in practical enquiry, and a positive attitude towards science.

The impact of the curriculum is seen in:

- **Pupils who speak confidently and enthusiastically about science**, using accurate vocabulary.
- **A strong understanding of key scientific concepts**, with children able to make connections over time.
- **Well-developed enquiry skills**, enabling pupils to plan, carry out and evaluate simple scientific investigations independently.
- **Progression of skills and knowledge** evidenced through workbooks, floorbooks, discussions and assessment outcomes.
- **Children who can apply learning to real-life contexts**, showing curiosity and critical thinking.
- **Improved outcomes across the school**, narrowing gaps and supporting high attainment.
- **Learners who are prepared for the next stage**, equipped with the foundations for secondary science.