



Essendine Primary School

Working Together, Growing Together



Teaching of science at Essendine

We want our children to be inquisitive scientists who are equipped to ask questions about the world around them- and to be able to investigate independently, finding the answers resourcefully and rigorously. Science should be a platform for maths skills in practice and to ensure breadth of enquiry, planning revolves around the 7 key skills at Essendine:

Identifying & Classifying

Pattern Seeking

Fair Testing

Recording

Researching

Surveying

Observing.

Science Philosophy

We believe that the best scientists are creative, and should be able to hypothesise creative ways in which to answer our science questions. By developing children's scientific knowledge and understanding, we intend to encourage respect for living organisms and our physical environment. Our curriculum seeks to nurture a passion for science, encouraging all children to consider themselves as scientists. Through looking at the curiosity and inspiration of scientists in the past, children are encouraged to explore as they grow confident and competent in the practical skills associated with Science as a process of enquiry. We want children asking questions, taking risks, making and learning from mistakes and understanding that scientific discovery is not a linear process. Through the planning and carrying out of different investigation types based on our key skills, children know how to use a range of equipment competently and confidently, and begin to make appropriate choices in the setting up of their own investigations. Children are provided with accurate vocabulary with which to explain their learning, including opportunities to say what is happening, predict how things will behave and analyse causes. Children will begin to use their knowledge and understanding to solve problems and reason about challenging questions.



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Science Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1*	Plants	Seasonal changes	Animals including Humans	Everyday Materials	Light/Sound	Sc1 Investigations
Year 2*	Use of Everyday materials	Living Things and their Habitats	Everyday Materials	Plants	Living Things and their Habitats	Living Things and their Habitats
Year 3-4, cycle 2	Rocks	Animals including Humans	Plants	Light	Electricity	Forces and Magnets
Year 3-4, cycle 1	States of Matter	Living Things and their habitats	Sound	Animals Including Humans	Electricity	Sc1 Investigations
Year 5	Humans and Animals	Materials	Earth and Space	Forces	Living Things and Habitats	Sc1 Investigations
Year 6	Electrical Circuits	Animals Including Humans	Evolution and Inheritance	Living Things and Habitats	Light	Sc1 Investigations

*KS1 units supported by Hamilton Planning