

SCIENCE

INTENT – Luddenden CE school is committed to providing an environment which nurtures innovation, curiosity, excellence and a love of learning. Our Science curriculum aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future

We recognise the importance of science in every aspect of daily life. We therefore make links to real life situations, celebrate diverse and influential scientists, and provide exciting opportunities for children to investigate and learn from first-hand experiences. Our core values in science are endurance, respect, and courage.

IMPLEMENTATION - Scientific knowledge, understanding and enquiry skills are embedded in each topic the children study. These topics are revisited and developed throughout their time at school. We ensure all children develop an understanding of the world around them, whilst acquiring specific skills and knowledge, to help them think scientifically. We use **Developing Experts** to enhance the planning and delivery of the Science curriculum.

IMPACT – Children demonstrate sound scientific knowledge, skills and understanding of the concepts studied. They are inquisitive and articulate, and can apply their scientific knowledge to describe and understand the world and processes around them. Pupils use their investigative skills to ask and answer scientific questions and consolidate/expand their learning.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception/Year 1 Ongoing provision over the year	Food, Health & Safety, Insects & Invertebrates, Machines, Space					
Reception/Year 1	All about me & my senses (Animals, including humans)	Weather, Seasons & Changes	Exploring Materials	Everyday materials – building & forces, machines	Plants	All About Animals (Animals including humans – animals)
Year 2/3 Cycle A	Light (Y3)	Uses of everyday materials (Y2)	Rocks (Y3)	Plants (Y2)	Habitats (Y2)	Animals, including humans - growth (Y2)
Year 2/3 Cycle B	Forces and magnets (Y3)	Living things and their habitats – around the world (Y2)	Animals, including humans – Life cycles (Y2)	Plants (Y3)	Living things and their habitats - microhabitats (Y2)	Animals, including humans - skeletons (Y3)
Year 4/5 Cycle A	Earth and space (Y5)	Electricity (Y4)	Living things and their habitats - classification (Y4)	Forces (Y5)	States of matter (Y4)	Animals including humans (Y4) – teeth, digestion, food chains
Year 4/5 Cycle B	Sound (Y4)	Conservation (Y4)	Living things and their habitats – animal life cycles (Y5)	Changes of material (Y5)	Animals, including humans – human life cycles (Y5) (Y5)	Properties of materials
Year 6	Living things and their habitats	Electricity (Y6)	Animals Including Humans – the circulatory system	Evolution and Inheritance	Light	Looking after the environment