

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 |
|---|---|--|--|---|---|---|
| Early Years/Year 1 Ongoing provision over the year | The Senses, Space, Forces, Health and Safety, Insects and Invertebrates, Food | | | | | |
| Reception/Year 1 | EY. The Senses EY. Our Body 1. Animals, including humans -All about me | EY. Weather and Seasons 1. Seasonal Changes | EY. Materials Y1. Everyday materials – Exploring everyday materials | EY. Machines 1. Everyday materials (Three Little Pigs) | EY. Plants 1. Plants | EY. Animals 1. All about animals |
| Year 2/3 Cycle A | 3. Light | 2. Uses of everyday materials | 3. Rocks | 2. Plants | 2. Animals including humans 1 – Growth | 3. Scientific Enquiry |
| Year 2/3 Cycle B | 3. Forces and magnets | 2. Living things and their habitats – around the world | 2. Animals, including humans 2 – Life cycles | 3. Plants | 2. Living things and their habitats – microhabitats | 3. Animals, including humans - skeletons |
| Year 4/5 Cycle A | 5. Earth and space | 4. Electricity | 4. Living things and their habitats – classification | 5. Forces | 4. States of matter | 4. Animals including humans – teeth, digestion, food chains |
| Year 4/5 Cycle B | 4. Sound | 4. Conservation | 5. Living things and their habitats – animal life cycles | 5. Changes of material | 5. Animals, including humans – human life cycles | 5. Properties of materials |
| Year 6 | 6. Living things and their habitats | 6. Electricity | 6. Animals Including Humans – the circulatory system | 6. Evolution and Inheritance | 6. Light | 6. Looking after the environment |