



# Wood Field Primary Science Curriculum

Our Science Curriculum				
<b>Fosters High Aspirations</b> by:	<b>Develops Creative Mindsets</b> by:	<b>Builds Resilient Learners</b> by:	<b>Promotes Independence</b> by:	<b>Widens Horizons by:</b>
<ul style="list-style-type: none"> <li>Exposure to different careers and role models when children learn about the work of 'great scientists'.</li> <li>Stimulating curiosity and wonder and encouraging children to ask questions about the world around them.</li> </ul>	<ul style="list-style-type: none"> <li>Science education is rooted in enquiry, where students learn to investigate, observe, and think critically about the world. Children are active learners and science gives them the power to explore and understand their environment.</li> <li>Science lessons often involve experiments where children actively engage with materials, observe phenomena, and test hypotheses. These activities encourage creative problem-solving because they have to figure out how to use available resources, what methods might work, and how to interpret results. The trial-and-error nature of experiments teaches flexibility and creative thinking in finding solutions.</li> </ul>	<ul style="list-style-type: none"> <li>Developing growth mindset as children will find that in science failure is part of the process and that not all experiments will give the results expected.</li> <li>In group science activities, children often work collaboratively, which helps them develop important social skills such as teamwork, communication, and conflict resolution. These social skills contribute to emotional resilience, as students learn how to build positive relationships and manage setbacks in a supportive environment.</li> </ul>	<ul style="list-style-type: none"> <li>Promoting team work and collaboration when conducting scientific enquiry. This promotes communication, team work and sharing ideas.</li> <li>Science exploration and discovery which allows children to observe and draw their own conclusions. As they develop the confidence to ask questions, experiment, and analyse data, they also build a sense of independence.</li> </ul>	<ul style="list-style-type: none"> <li>Creating that excitement about science, which then encourages them to seek out more opportunities for learning, both inside and outside the classroom. This maybe through watching documentaries, or reading science books and articles can expand their understanding and open new doors.</li> <li>When children understand how science relates to everyday life—whether it's through understanding the water cycle, learning about human health, or exploring environmental issues—they see the practical importance of knowledge. This connection to real-world applications can ignite an interest in fields such as medicine, engineering, environmental conservation, or technology, motivating children to pursue these careers with passion and determination.</li> </ul>

Our Science Curriculum allows our pupils to show they are:

Ambitious by:	Inquisitive by:	Respectful by:	Kind by:	Worldly by:
<ul style="list-style-type: none"> <li>Nurturing qualities like curiosity, problem-solving, resilience, and critical thinking—traits that are essential for being ambitious and achieving long-term goals.</li> </ul>	<ul style="list-style-type: none"> <li>Promoting exploration and experimentation.</li> <li>Through scientific enquiry where the children ask questions, plan experiments, measure and record their data and analyse their results.</li> <li>Observing the world around them.</li> </ul>	<ul style="list-style-type: none"> <li>Helping children understand the natural world, and the more they learn about ecosystems, biodiversity, and the interconnections between different living things, the more they can appreciate and respect life in all its forms.</li> <li>When students learn about animals, plants, and the environment, they develop a sense of wonder and empathy for other creatures and the planet.</li> </ul>	<ul style="list-style-type: none"> <li>Working collaboratively to share ideas and carry out scientific enquiry.</li> <li>Understand nature and the environment and how they work together.</li> <li>Science introduces children to the concept of biological diversity—different species, habitats, and ecosystems. By recognizing the diversity in nature, children can develop a greater appreciation for diversity in humans as well. This can lead to a deeper understanding and respect for people from different cultures, backgrounds, and abilities.</li> </ul>	<ul style="list-style-type: none"> <li>Learning about famous scientists and how they have helped shape the world we live in today.</li> <li>Providing foundational knowledge about how the world works. Concepts like ecosystems, weather patterns, the water cycle, and the human body help children understand the natural environment. This knowledge makes them more aware of the world's diversity and the interconnectedness of life.</li> <li>Encouraging global awareness around issues such as climate change and pollution.</li> <li>As children learn about environmental sustainability, human impact on nature, and the importance of scientific advancements for public health, they begin to develop a sense of responsibility toward the world. This feeling can encourage them to become proactive, world-conscious individuals.</li> </ul>