

Science Curriculum Intent Statement

Ethos

Rooted in our Christian ethos, science at our school inspires awe, wonder, and respect for God's creation. We want students to enjoy, marvel at, and feel curious about the natural world and the universe around them. Inspired by Rosalind Franklin's belief that "science and everyday life cannot and should not be separated," we aim for students to appreciate that science is inextricably linked to human life. Students will understand that science is an ever-evolving discipline, shaped by evidence, inquiry, and human endeavour, and that studying science can lead to personal and societal greatness.

Curriculum

Our curriculum develops secure, fundamental knowledge of key scientific concepts so that students become scientifically literate participants in society. Students are taught to make links between scientific ideas across biology, chemistry, and physics, and to apply their knowledge to new and unfamiliar contexts. Students develop practical and analytical skills to plan, carry out, and evaluate investigations, understanding that the scientific method is rooted in evidence. Learning is carefully sequenced to help students make connections between concepts and apply their understanding to real-world and contemporary issues, including sustainability and environmental responsibility. We incorporate topical issues to ensure learning is relevant, meaningful, and connected to local and global contexts.

Community

Science learning is explicitly connected to the wider world. Students are encouraged to relate classroom learning to real-life experiences and to understand the impact of science on society, the environment, and global challenges. Through exploring sustainability, environmental issues, and scientific developments, students learn how science informs decision-making and contributes to the common good. They are supported to understand the social, moral, and ethical dimensions of scientific advancement.

Character

Through science education, students develop confidence, curiosity, and critical thinking. They learn to communicate ideas clearly, evaluate information thoughtfully, and make reasoned decisions grounded in evidence and Christian values. Students are supported to explore the social, moral, and ethical dimensions of scientific questions, developing compassion, integrity, and wisdom. Science helps shape students who are responsible, reflective, and equipped to use their knowledge and skills in service to others.