

Science



Intent

The science projects in the WHSS Curriculum are sequenced to develop both students' substantive and declarative knowledge, and if possible, make meaningful links to other projects. For example, science topics are paired with the most appropriate thematic learning driver subjects to enable our students to make good cross-curricular links. These links allow for students to embed their substantive knowledge in new and often real-life contexts.

The sequencing of projects ensures that our boys have the knowledge and vocabulary to comprehend subsequent projects fully. Each project's place in the year has also been carefully considered. For example, projects that involve growing plants or observing animals are positioned at a suitable time of year to give our boys the best possible opportunity to make first-hand observations and make use of our nature garden / farm and school environment.

The WHSS Science scheme is based on national curriculum programmes of study.

Science projects have been planned to allow the sequencing of curriculum aspects and concepts, vocabulary and connectivity to be linked with other curriculum subjects

Implementation

Entry Level Certificate Science

Some students will have the opportunity to work towards an ELC qualification in Science. The scheme of learning will provide the students with the opportunity to develop their interest in, and enthusiasm for, science. They will learn to develop a critical approach to scientific evidence and methods.

During the study students will acquire and apply social skills, knowledge and understanding of working scientifically.

Acquiring scientific skills, knowledge and understanding necessary for progression to further learning and the world of work will be an essential part of the studies.

Cross curricular links will enable the students to apply literacy, numeracy and information technology skills.

This course has two options that include either the certificate after completing 3 components and 3 practical investigations. The diploma consists of 6 components and 6 practical investigations.

GCSE Biology

The AQA GCSE Biology specification can open a whole world of opportunities to delve deeper into life processes and the relationships between animals and plants allowing students to investigate Ecology and the Environment. Students will have the exciting opportunity to look closely at Different Biological systems.

Completing study in Biology will help to provide students with further knowledge of the core principles of GCSE Biology and how it has changed our understanding of the natural world around us. Students will focus on different types of Biology and how to apply these in experiments you can undertake in future to make new and ground-breaking discoveries.

Impact

Studying science in school plays a crucial role in developing critical thinking, problem-solving, and analytical skills in students. It fosters curiosity about the natural world and encourages students to ask questions, explore evidence, and think logically. Science education equips students with the knowledge to make informed decisions about health, technology, and environmental issues, shaping them into responsible citizens in an increasingly complex and science-driven world. Additionally, it can inspire interest in STEM careers, contributing to innovation and future advancements.