



In science we seek to nurture, develop and enable students' curiosity, to explore and develop their scientific knowledge and enquiry skills, discovering themselves, our world and the processes that take place within it; honing their powers of questioning, investigation and experimentation.

Importance

The Science Curriculum:

A high-quality education in science is essential to understand every aspect of our lives. Science is integral to understanding the living, physical and chemical world around us. Through excellent teaching, modelling, investigation, experimentation and enquiry, pupils will develop a sense of excitement and curiosity as they build up the vital knowledge and skills needed to become scientists of the future. Being a good scientist is about much more than just what takes place within the classroom. We encourage students to make links between the scientific principles they learn and their own lives. Bringing contemporary and relevant examples into lessons helps students to make these links.

The skills developed as scientists at Fernwood such as the ability to problem solve, critically analyse, consider evidence and the views of others are all key elements not just for scientific prospects but more broadly as a member of society. The Faculty of Science therefore recognises the importance of encouraging pupils to question evidence, consider bias and look at the context of ideas being proposed.

"Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less"- Marie Curie

Aims of the Curriculum

The aims of the Science curriculum is to ensure that students:

- Develop a curiosity in about science and the world around them.
- Are able to explain the relevance of science to their lives and the lives of others.
- Develop and build their enquiry skills, including but not limited to, practical experience of how scientists work.
- Are able to challenge perceptions and misconceptions in science
- Are interested in how the world works and how they can use their knowledge and skills to help solve a problem in society.
- Have an increased awareness of careers in STEM and are encouraged to explore science when they leave Fernwood.
- Increase their ability to consider the public understanding of science and issues critical to the scientific community at that time.
- Are self-motivated and have the ability to work independently.
- Play a positive role in engaging lessons that include some of the latest ideas from the educational and scientific world that cover the key strands of science knowledge across Biology, Chemistry and Physics.
- Are successfully qualified in appropriate science courses

