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# YEAR 10 SUBJECTS

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## General Science

General Science is a compulsory unit in Semester One that integrates the science subjects (living, chemical and physical world). The overarching themes are biomedical (Biology and Chemistry) and physical chemistry (Physics and Chemistry) showcasing the integration of Science, Technology, Engineering and Mathematics (STEM) in the real world. This gives the subject an authentic feel and highlights issues of local and global significance.

This subject provides students with the opportunity to model scientific investigation and focus on scientific skills and collaborative problem solving.

Students will practice and refine the skills required for all VCE science subjects through inquiry and evaluate and communicate their findings via a variety of means.

Generic skills that are considered across all the subjects in the Science faculty include:

- Application and analysis of theory to practical situations
- Evaluation of ethical implications of scientific research and theory
- Use equipment, materials and instruments responsibly and safely
- Present experimental results appropriately; correct use of the selected report writing format
- Apply techniques to locate more precise information from websites, including searching general and specialised directories; use of selected software and hardware to enhance and support the application of content

Subject specific skills are:

- You will analyse the data (both self-generated as well as second hand data) and synthesise new ideas of how this data can be applicable to a number of scenarios
- You will design and undertake practical experiments and projects using the scientific method to test hypotheses that you have made based on prior learning; and explain your findings
- You will be able to model and explain theories related to the biomedical or physical chemistry fields of science
- You will examine current issues relating to the biomedical or physical chemistry fields of science