



Highfields State
Secondary College

Semester 2 Course Overview

Faculty: Science
Subject: Science in practice
Year level: 11

Course Outline

The Australian Curriculum: Science has three core topics: *Scientific literacy and working scientifically, workplace health and safety and communication and self-management.*

Together, the three core topics of the science curriculum provide students with understanding, knowledge and skills through which they can develop a scientific view of the world. Students are challenged to explore science, its concepts, nature and uses through clearly described inquiry processes across a range of elective areas; science for the workplace, resources, energy and sustainability, health and lifestyles, environments and discovery and change.

Term 3	Term 4
Environmental Study	Energy sources
This module expands on knowledge and skills developed in Module 1 to allow students to gain a deeper understanding of the impact they have on the world around them. This will be done by analysing the human impact and natural impact on the local water way.	This module investigates the role of alternative energy sources and examines the efficiency of these systems e.g. solar photovoltaic systems, within the Toowoomba region. It allows students to develop an understanding of the physical processes associated with harnessing and using renewable energy within the community.
Assessment	
Task 3 – Investigation – Environmental study	Task 4 – Extended response – Energy sources

Literacy requirements:

This unit provides opportunities for students to engage in the Australian Curriculum Content and build upon the literacy skills of:

- using technical and specific terms for concepts and features of the world,
- presenting scientific information in the form of diagrams, flow charts, tables and graphs,
- comprehending and composing texts, including those that provide information, describe events and phenomena, recount experiments, present and evaluate data, give explanations and present opinions or claims.

Numeracy requirements:

This unit provides opportunities for students to engage in the Australian Curriculum Content and build upon the numeracy skills of:

- collecting, representing and interpreting data from investigations.
- Use of formal units to provide accurate results in measuring and testing across a range of science topics.