

Year 8 Science

Semester 1 Course Outline

This semester students will be introduced to cells as microscopic structures that explain macroscopic properties of living systems. They link form and function at a cellular level and explore the organisation of body systems in terms of flows of matter between interdependent organs. Students will classify different forms of energy, and describe the role of energy in causing change in systems. They will explain how evidence has led to an improved understanding of a scientific idea, and explore how technology has contributed to finding solutions to a range of contemporary problems. Students will plan and conduct a range of investigations ensuring safety and ethical guidelines. They will learn to communicate their findings using scientific language and representations.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- 8.402 Analyses the relationship between structure and function at cell, organ and body system levels.
- 8.400 Identifies different forms of energy and describes how energy transfers and transformations cause change in simple systems.
- 8.404 Explains how evidence has led to an improved understanding of a scientific idea and describes situations in which scientists collaborated to generate solutions to contemporary problems.
- 8.405 Reflects on the implications of these solutions for different groups in society.
- .8.406 Identifies and constructs questions and problems that can be investigated scientifically.
- 8.407 Considers safety and ethics when planning investigations, including designing field or experimental methods.
- 8.411 Uses appropriate language and representations to communicate science ideas, methods and findings in a range of text types.

Assessment Tasks

Students will be assessed on their participation and completion of classwork and assessment tasks.

Task*	Week Due**
Formative Assessment - class work, quizzes, practical lessons etc.	Ongoing
Research Assignment	
Inquiry Skills - Investigation Tasks	

* Type of assessment may vary.

**Due dates are an estimate only

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