

Year 10 Science

Semester 2 Course Outline

Students will explore the chemical, and geological evidence for different theories such as collision theory and the Big Bang. They will develop their understanding of atomic theory to understand relationships within the periodic table. They will learn about the relationships between aspects, physical and chemical worlds that are applied to systems on a local and global scale and this enables them to predict how changes will affect equilibrium within these systems.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- 10.422- Analyses how the periodic table organises elements and uses it to make predictions about the properties of elements.
- 10.423 - Explains how chemical reactions are used to produce particular products and how different factors influence the rate of reactions.
- 10.426 - Describes and analyses interactions and cycles within and between Earth's spheres
- 10.427 - Evaluates the evidence for scientific theories that explain the origin of the universe and the diversity of life on Earth.
- 10.429 - Analyses how the models and theories used have developed over time and discusses the factors that prompted a review.
- 10.430 - Develops questions and hypotheses and independently designs and improves appropriate methods of investigation, including field work and laboratory experimentation.
- 10.434 - Constructs evidence-based arguments and selects appropriate representations and text types to communicate science ideas for specific purposes.

Assessment Tasks

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

Task	Week Due*
Chemistry test - Periodic table test and Rates of reaction test	Term 3 Week 5 and 9
Rates of Reaction Scientific report	Term 3, Week 8
Online Cosmology tasks	Ongoing
NASA writing task	Term 4, Week 4
Global Issues online task	Ongoing

*Due dates are an estimate only

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