

Year 8 Science

Semester 2 Course Outline

This semester students will learn about the role energy plays in causing change in systems, including the role of heat and kinetic energy in the rock cycle. Students will explore changes in matter at a particle level, and distinguish between chemical and physical change. They will use experimentation to isolate relationships between components in systems and explain these relationships through increasingly different representations. Students will make predictions and propose explanations, drawing on evidence to support their views while considering other points of view.

Year.8.399 - Compares physical and chemical changes and uses the particle model to explain and predict the properties and behaviours of substances.

Year.8.401 - Compares processes of rock formation, including the timescales involved.

Year.8.403 - Examines the different science knowledge used in occupations.

Year.8.409 - Constructs representations of data to reveal and analyse patterns and trends, and uses these when justifying conclusions.

Year.8.410 - Explains how modifications to methods could improve the quality of data and applies own scientific knowledge and investigation findings to evaluate claims made by others.

Year.8.411 - Uses appropriate language and representations to communicate science ideas, methods and findings in a range of text types.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

Assessment Tasks

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

Task	Week Due*
Investigation - Rate of cooling on crystal size	Week 6 Term 3
Research Task - Mining and uses of rocks	Week 9 Term 3
Investigation - Chemical change	Week 6 Term 4
Ongoing practical experiences and reports	Ongoing
Ongoing quizzes	Ongoing
Formative Assessments	Ongoing class work

*Due dates are an estimate only

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Executive Teacher: Darren King

