

# Year 9 Science

## Semester 2 Course Outline

This semester students will explore Chemistry and Physics topics. They will develop their knowledge of the particle model into an understanding of atomic structure, explaining how radioactivity arises from this structure, and demonstrate how a range of common chemical reactions arise as the result of the rearrangement of different atoms. Students will then examine how energy is transferred through different media as in waves and particles as light, sound and heat.

### Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- Year.9.412 Explains chemical processes and natural radioactivity in terms of atoms and energy transfers and describes examples of important chemical reactions
- Year.9.413 Describes models of energy transfer and applies these to explain phenomena
- Year 9.417 Designs questions that can be investigated using a range of inquiry skills.
- Year 9.418 Designs methods that include the control and accurate measurement of variables and systematic collection of data and describes how ethics and safety were considered.
- Year.9.420 Analyses methods used and the quality of data personally collected, and explains specific actions to improve the quality of evidence
- Year 9.421 Evaluates others' methods and explanations from a scientific perspective and uses appropriate language and representations when communicating findings and ideas to specific audiences.

### Assessment Tasks

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

Task	Week Due*
Laboratory Report: <a href="#">Hot and Cold Pack</a>	Week 6 Term 3
Design Task: Build a solar oven	Week 4 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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