

Year 7 Science

Semester 1 Course Outline

In semester 1 students will describe techniques to separate pure substances from mixtures. Students will represent and predict the effects of unbalanced forces, including Earth's gravity, on motion. They will describe situations where scientific knowledge from different science disciplines and diverse cultures has been used to solve a real-world problem. They will make accurate measurements and control variables to analyse relationships between system components. They will explore and explain these relationships through appropriate representations and consider the role of science in decision-making processes.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- 7.386 - Describes techniques to separate pure substances from mixtures
- 7.387 - Represents and predicts the effects of unbalanced forces, including Earth's gravity, on motion
- 7.391 - Describes situations where scientific knowledge from different science disciplines and diverse cultures has been used to solve a real-world problem
- 7.392 - Explains possible implications of the solution for different groups in society
- 7.395 - Selects equipment that improves fairness and accuracy and describes how they considered safety
- 7.396 - Draws on evidence to support conclusions
- 7.397 - Summarise data from different sources, describes trends and refers to the quality of data when suggesting improvements to methods.
- 7.398 - Communicates ideas, methods and findings using scientific language and appropriate representations

Assessment Tasks

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

| Task | Week Due* |
|---|----------------|
| Topic tests (Intro to Science) | Term 1, Week 4 |
| Scientific report on separating iron, salt and sand | Term 2, Week 2 |
| Topic test (Fit for drinking) | Term 2, Week 3 |
| Assignment on balanced and unbalanced forces | Term 2, Week 6 |
| Formative Assessment | Ongoing |

*Due dates are an estimate only

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