

Year 8 Science 2018



Science

Year 8

Length: 2 Semesters

Assumed Knowledge:

Year 7 Science.

Description:

All students will study a full year (2 Semesters) of Science at year 8. This is a general Science course addressing the Australian Curriculum Science Understandings in the Achievement Standards of:

- Biological Sciences
- Chemical Sciences
- Physical Sciences
- Earth and Space Sciences

Science as a Human Endeavour and Science Enquiry Skills will also be addressed through these topics.

By the end of Year 8, students compare physical and chemical changes and use the particle model to explain and predict the properties and behaviours of substances. They identify different forms of energy and describe how energy transfers and transformations cause change in simple systems. They compare processes of rock formation, including the time scales involved. They analyse the relationship between structure and function at cell, organ and body system levels. Students examine the different science knowledge used in occupations. They explain how evidence has led to an improved understanding of a scientific idea and describe situations in which scientists collaborated to generate solutions to contemporary problems.

Students identify and construct questions and problems that they can investigate scientifically. They consider safety and ethics when planning investigations, including designing field or experimental methods. They identify variables to be changed, measured and controlled. Students construct representations of their data to reveal and analyse patterns and trends, and use these when justifying their conclusions. They explain how modifications to methods could improve the quality of their data and apply their own scientific knowledge and investigation findings to evaluate claims made by others. They use appropriate language and representations to communicate science ideas, methods and findings in a range of text types.

Assessment Details:

Assessment will be from a combination of assignment work, practical work, folio work and tests.

For more information on Australian Curriculum please visit:

<http://www.australiancurriculum.edu.au>