



Belconnen High School

COURSE OUTLINE Semester 2, 2026

Course Title: **8 Science PEP**

Faculty: **Science**

Faculty Head: Leanne Claridge

Description of Course

Year 8 students have multiple opportunities to develop and demonstrate their skills in scientific investigations, including through their Science Fair projects throughout the semester. They compare different forms of energy and represent transfer and transformation of energy in simple systems. Students classify and represent different types of matter and distinguish between physical and chemical change. They explore how different factors influence the development of scientific knowledge. Students will analyse the importance of science communication in shaping viewpoints, policies and regulations.

Learning Outcomes

- Adopts text structures to organise, develop and link ideas when writing and creating
- Compares different forms of energy and represents transfer and transformation of energy in simple systems
- Classifies and represents different types of matter and distinguishes between physical and chemical change
- Analyses how different factors influence development of and lead to changes in scientific knowledge
- Analyses the importance of science communication in shaping viewpoints, policies and regulations
- Plans and conducts safe, reproducible investigations to test relationships and explore models
- Describes potential ethical issues and intercultural considerations needed for specific field locations or use of secondary data
- Selects and uses equipment to generate and record data with precision
- Selects and constructs appropriate representations to organise and process data and information
- Analyses data and information to describe patterns, trends and relationships and identify anomalies
- Identifies assumptions and sources of error in methods and analyses conclusions and claims with reference to conflicting evidence and unanswered questions
- Constructs evidence-based arguments to support conclusions and evaluate claims
- Selects and uses language and text features appropriately for their purpose when communicating their ideas, findings and arguments to specific audiences

Materials Required

Students will have access to a google classroom where class tasks and assessment items will be displayed, therefore a device is required. The assessment dates for this subject will appear on the students google calendar. Students can refer to the BHS Study Skills Guide and the BHS website for assistance with assessment tasks. The Assessment and Reporting Policy is available on the school website. Items Required Chromebook or suitable device Notebooks, pencil case and equipment.

Homework Required

Students will be expected to complete a variety of tasks outside of class time. This may include, teacher-set homework, research for tasks, revision for tests, review of class work and more.

Assessment Schedule

	Due Date	% Weighting
Science Fair	21/08/2026	
Energy Test	14/09/2026	
Chemistry booklet	23/11/2026	
Classwork ongoing	04/12/2026	

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