

Course Outline Year 7 Semester 2 2026

Science

Course Description and Aims

With inquiry at the core, the MYP sciences framework aims to guide students to independently and collaboratively investigate issues through research, observation and experimentation. The MYP sciences curriculum explores the connections between science and everyday life. As they investigate real examples of science applications, students discover the tensions and dependencies between science and morality, ethics, culture, economics, politics, and the environment. Scientific inquiry fosters critical and creative thinking about research and design, as well as the identification of assumptions and alternative explanations. Students learn to appreciate and respect the ideas of others, gain good ethical-reasoning skills and further develop their sense of responsibility as members of local and global communities.

MYP Assessment Criteria

Criterion A: Knowing and understanding

Students develop scientific knowledge (facts, ideas, concepts, processes, laws, principles, models and theories) and apply it to solve problems and express scientifically supported judgments.

Criterion B: Inquiring and designing

Students develop intellectual and practical skills through designing, analysing and performing scientific investigations.

Criterion C: Processing and evaluating

Students collect, process and interpret qualitative and/or quantitative data, and explain conclusions that have been appropriately reached.

Criterion D: Reflecting on the impacts of science

Students evaluate the implications of scientific developments and their applications to a specific problem or issue. Varied scientific language is applied to demonstrate understanding. Students should become aware of the importance of documenting the work of others when communicating in science.

Course Outline

In Semester Two, Year 7 students will model cycles in the Earth-sun-moon system and explain the effects of these cycles on Earth phenomena, and represent and explain the effects of forces acting on objects. In Term Three, students study Earth in Space. They model cyclic changes in the relative positions of the Earth, sun and moon and explain how these cycles cause eclipses and influence predictable phenomena on Earth, including seasons and tides. In Term Four, students study Forces & Simple Machines. They investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it.

Assessment Tasks

Assessment Task	Due*
Modelling Interactions	Week 6
Earth/ Sun/ Moon Test	Week 9
Forces Practical Report	Week 15
Forces & Simple Machines Test	Week 17

**Due date subject to change at classroom teacher discretion.*

Approaches to Learning

Communication skills, Research skills, Thinking skills, Self- Management skills and Social skills.

Australian Curriculum Achievement Standard

The Achievement Standard for Year 7 Science is based on the Australian Curriculum v9 Science <https://www.australiancurriculum.edu.au/>.