

Course Outline Year 10 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 10 students study the topic Dynamic Earth in Space. They explain how Newton's laws describe motion and apply them to predict the motion of objects in a system. They sequence key events in the origin and evolution of the universe and describe the supporting evidence for the Big Bang theory. They describe trends in patterns of global climate change and identify causal factors. In Term Three, students investigate Newton's laws of motion and quantitatively analyse the relationship between force, mass and acceleration of objects. They describe how the Big Bang theory models the origin and evolution of the universe and analyse the supporting evidence for the theory. In Term Four, students use models of energy flow between the geosphere, biosphere, hydrosphere and atmosphere to explain patterns of global climate change.

Assessment Tasks

Assessment Task	Due*
Motion of Objects Practical Report	Week 6
Motion Test	Week 8
Mars Explorer Research & Data Analysis	Week 12
Mysterious Universe & Global Systems Test	Week 16

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

Approaches to Learning

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

Australian Curriculum Achievement Standard

The Achievement Standard for Year 10 Science is based on the Australian Curriculum v9 Science <https://www.australiancurriculum.edu.au/>.