

Investigating Science

The Investigating Science course is designed to complement the study of the science disciplines by providing additional opportunities for students to engage with scientific processes, and apply those processes to investigate relevant personal, community and global scientific issues. The ongoing study of science and the development of scientific skills, processes and their application, have led humans to accumulate an evidence-based body of knowledge about human interactions – past, present and future – with the world and its galactic neighbourhood.

Who should choose to study Investigating Science?

Students from a broad range of achievement levels can succeed in Investigating Science. Students may select this course either without other science disciplines or to complement their choice of other Science subjects. Students should be seeking an ongoing engagement with science and emerging science, technology, engineering or mathematics (STEM) activities and industries. They should be willing and able to work independently and collaboratively on scientific investigations. Investigating Science encourages the development of a range of capabilities and capacities that enhance a student's ability to participate in all aspects of community life and within a fast-changing technological landscape.

Course Content

The Year 11 and Year 12 courses each comprise four modules.

Year 11

- Module 1: Cause and Effect – Observing
- Module 2: Cause and Effect – Inferences and Generalisations
- Module 3: Scientific Models
- Module 4: Theories and Laws

Year 12

- Module 5: Scientific Investigations
- Module 6: Technologies
- Module 7: Fact or Fantasy?
- Module 8: Science and Society

The course is firmly focused on developing Working Scientifically skills, as they provide a foundation for students to value investigation, solve problems, develop and communicate evidence-based arguments, and make informed decisions. These skills will be integrated as content and assessment throughout the course and involve questioning and predicting, planning and conducting investigations, processing data and information, analysing data and information, problem solving and communicating.

See the NESA Investigating Science syllabus on the website below for more information.

<https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/stage-6-science/investigating-science-2017>