

BIOLOGY



Biology provides opportunities for students to engage with living systems.

In Years 11 and 12, students:

- Develop their understanding of cells and multicellular organisms
- Engage with the concept of maintaining the internal environment
- Study biodiversity and the interconnectedness of life
- Concepts of heredity and the continuity of life

Biology aims to develop students':

- Sense of wonder and curiosity about life
- Respect for all living things and the environment
- Understanding of how biological systems interact and are interrelated, the flow of matter and energy through and between these systems, and the processes by which they persist and change
- Understanding of major biological concepts, theories and models related to biological systems at all scales, from subcellular processes to ecosystem dynamics
- Ability to use sound, evidence-based arguments creatively and analytically when evaluating claims and applying biological knowledge

• Appreciation of how biological knowledge has developed over time and continues to develop, how scientists use biology in a wide range of applications, and how biological knowledge influences society in local, regional and global contexts

- Ability to plan and carry out fieldwork, laboratory and other research investigations, including the collection and analysis of qualitative and quantitative data and the interpretation of evidence
- Ability to communicate biological understanding, findings, arguments and conclusions using appropriate representations, modes and genres.

Career Opportunities:

- Life Scientist
- Anatomist
- Physiologist
- Biochemist
- Biotechnologist
- Botanist
- Marine Biologist
- Microbiologist
- Zoologist

