

SCIENCE

Physics & Environmental Science

10EPH

SUBJECT DESCRIPTION:

During this course, students will explore the structure of space from the size of the Universe to the processes of Earth. Students will learn about the Big Bang, black holes, galaxy, and star system formation and how Earth's path through space leads to the greenhouse effect and natural cycles.

After completion of this course, students will be able to:

- describe the theory of the Big Bang
- outline the structure and formation of galaxies, stars and star systems
- describe gravitational and balanced physical forces
- Describe how thermal energy movement on earth effects climate

VCE SUBJECT LINKS

Physics

Environmental Science

THIS SUBJECT ENHANCES LEARNING IN:

Scientific investigation skills, creative and design thinking, the origins of the Universe, how scientific theories are developed and change, and the dynamic Greenhouse effect.

ASSESSMENT:

- Examination
- Tests
- Practical work
- Assignments

Chemistry & Biology

10CBI

SUBJECT DESCRIPTION:

In this subject, students will explore the biochemical processes that keep humans alive and study how a systems' structure is related to its function. Students will investigate photosynthesis and respiration, the chemical reactions required to sustain life. Students will also learn how to write balanced chemical equations and explore a variety of chemical reactions. They will develop their science investigation skills to consolidate from genetic inheritance to the control and regulation of a living organism, the chemical reactions. They will develop their science investigation skills to consolidate their understanding of both biology and chemistry.

After completion of this course, students will be able to:

- describe the importance of photosynthesis and respiration
- explain how digestive systems and respiratory systems function in a variety of organisms.
- write and balance chemical equations
- describe a variety of chemical reaction types

VCE SUBJECT LINKS

Biology

Chemistry

THIS SUBJECT ENHANCES LEARNING IN:

Scientific investigation skills, creative and design thinking, chemical reactions and equations and understanding inheritance.

ASSESSMENT:

- Examination
- Tests
- Practical work
- Assignments