

Year 10 Science (10A & 10T)

OVERVIEW

Students complete course work which also includes practical tasks and research assignments. They also complete an E-learning program, which is designed to improve science knowledge and understanding, and which gives students interactive and engaging learning.

Areas of study are:

The transmission of heritable characteristics from one generation to the next involves DNA and genes

The atomic structure and properties of elements are used to organise them in the Periodic Table

The universe contains features including galaxies, stars and solar systems and the Big Bang theory can be used to explain the origin of the universe.

Global systems, including the carbon cycle, rely on interactions involving the biosphere, lithosphere, hydrosphere and atmosphere

The motion of objects can be described and predicted using the laws of physics

The area of study follows the year 10 science guidelines of the three strands of the Australian curriculum, Science Understanding, Science as a Human Endeavour, and Science Inquiry They provide the skills and knowledge to build in the developmental aspects of the learning of Biological, Chemical, Physical, Earth and Space sciences.

By the end of Year 10, students analyse how the periodic table organises elements and use it to make predictions about the properties of elements. They apply relationships between force, mass and acceleration to predict changes in the motion of objects. Students describe and analyse interactions and cycles within and between Earth's spheres. They evaluate the evidence for scientific theories that explain the origin of the universe and the diversity of life on Earth. Students analyse how the models and theories they use have developed over time and discuss the factors that prompted their review.

ASSESSMENT

A range of formal assessment includes topic tests, semester exams, practical investigations and E-learning tasks and Summary book notes.

SUBJECT PREREQUISITES

There are no prerequisites for this subject