Physics

Description

Physics aims to look at how the world around us works and how we can use that information to predict how things will behave.

Unit Topics

Unit 1 - What ideas explain the physical world?

Unit 2 - What do experiments reveal about the physical world?

Unit 3 - How do fields explain motion and electricity?

Unit 4 - How can two contradictory models explain both light and matter?

Skill Development

Students will be developing skills that will allow them to plan, safely undertake and report on scientific investigations. They will also develop the ability to see how the topics covered relate to the world around us.

Possible Assessment Tasks

This subject will be assesed by test and report style assessments, and a number of practical investigations which may include a report or poster presentation.

Activities/Camps/Excursions

A variety of classroom theory and practical activities, including an extended investigation. Excursions likely to include Luna Park Physics Day and University based workshops.

Career Options

Physics leads to a wide range of careers, including (but not limited to) acoustics, astrophysics and cosmology, atmospheric physics, bushfire research, climate science, computational physics and games development, education, electrical and electronics, energy research, engineering, forensic science, geology, instrumentation, lasers and photonics, materials science, medical physics, neuroscience, nuclear science, optics, pyrotechnics, radiography, robotics and sports science.