

Physics

LEVEL 2

Credits: 23 - 26 (7-10 internal) actual credit totals are at the discretion of the teacher

Leads onto: Level 3 Physics and Applied Science

In Level 2 Physics you will learn about why the world works the way it does and how this knowledge is used in real life situations. It includes explanations for phenomena such as light, sound, heat, electricity and magnetism, waves forces and motion.

This subject is an important component of many science careers such as Architect, Doctor, Engineering, Agriculture, Radiologist, Pilot, and Technician. It is also strongly recommended as a prerequisite for any Health Science course at universities throughout New Zealand.

Course of Study

- Mechanics
- Electricity and Magnetism
- Wave Motion
- Nuclear Physics

Course costs: Workbook approximately \$25.00

Teacher Contact: Mr Cook

Physics

LEVEL 3

Credits: 23 - 29 (7-13 internal) actual credit totals are at the discretion of the teacher.

Leads onto: Tertiary study and applied science careers

Level 3 Physics builds on the work covered in the Level 2 course. Evaluation of data by linking trends and patterns with key physical principles in a variety of situations is required. Knowing about Physics enables people to understand a wide range of contemporary challenges and potential technological solutions.

Physics is required for most science study at tertiary level (e.g. health sciences such as radiography, medicine, agriculture, mechanical and electrical engineering) and can lead to careers in areas such as teaching, laboratory technician, architecture and industries such as mining, forestry, electronics, aviation and agriculture.

Course of Study

- Rotational Motion
- Simple Harmonic Motion
- Diffraction
- Doppler Effect
- Gravitation
- Kirchoff's Laws of Electrical Circuits
- Capacitance, Inductances and Alternating Current Theory
- Nuclear Physics
- Physics of the Hydrogen atom

Course costs: Workbook approximately \$25.00

Teacher Contact: Mr Cook