Year 11 Physics - Ahupūngao Course Information 2024

Year 11 Physics is a half year course.

Block A - 2 February - 21 June

Block B - 24 June -15 November

Achievement Objectives

In their study of physics, students will use their developing scientific knowledge, skills, and attitudes to achieve the following aims:

1. Students will develop:
   - An understanding of concepts, principles, and models in Physics.
   - The ability to use concepts, principles, and models to explain physical phenomena.
2. Students will appreciate:
   - The nature of theories and models in physics.
   - How physics and physics-based applications impact society and are influenced by the needs and attitudes of people.

Content

Mechanics

Motion, Force, and Energy.

Electricity and Electromagnetism

Static Electricity, Current Electricity, Magnetic Fields, Electromagnetic effects.

Practical Investigation

One guided experiment and two formative experiments.

Resources for each topic:

Prior knowledge from previous years
Learning Outcomes for this year
Topic Notes
Topic Questions
Topic Assignments

Assignments

There will be an assignment for each topic that will be structured in a similar way to an achievement standard assessment booklet and will lead to the award of one of the grades: N (not achieved), A (achieved), M (achieved with merit), E (achieved with excellence).

Google Classroom

Some lessons, along with interactive animations and videos to explain the Physics concepts are available in Google Classroom.

School assessment

There will be practice tests for sub-topics and two 50-minute assessments—one focused on the Mechanics topic and the other on the Electricity topic. Each test will include questions that necessitate:

- Descriptions and explanations of concepts, principles, and phenomena. Explanations will need to be concise and show clear understanding.
- The solution to numerical questions.

Recall of formulae will not be tested.