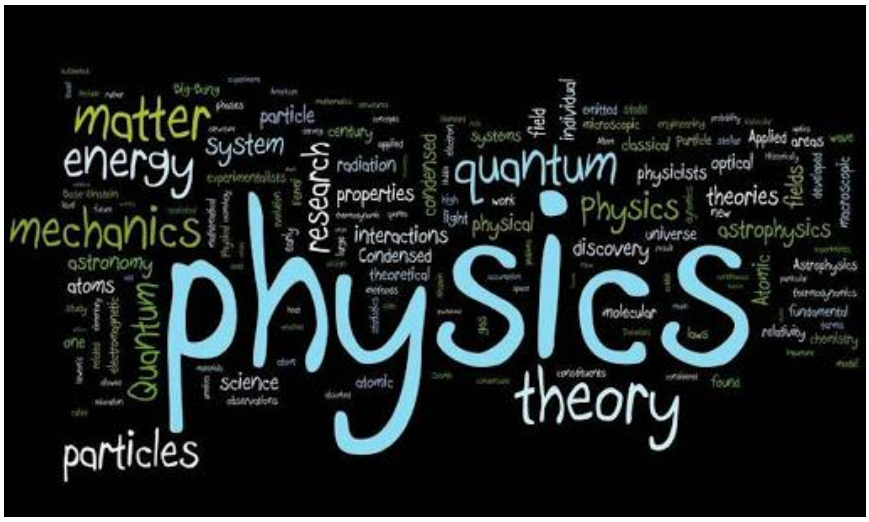
Year 12 Physics 2022



TIMELINE

Term 1	**Mechanics (E)**
Term 2	**Atomic and Nuclear Physics (I) Application of Physics (I)**
Term 3	**Electricity & Electromagnetism (E)**
Term 4	**Mastery**

WHAT WILL YOU LEARN?

Physics is the study of the nature and properties of matter, forces and energy. From the smallest sub-atomic particle to the infinite universe. You will learn aspects of it all.

Topics taught in Year 12 includes mechanics, electricity and electromagnetism, atomic and nuclear physics. More importantly you will be developing lifelong skills in problem solving and critical thinking.

Physics is often described as applied mathematics. You will see how the algebra and number skills you learn has a real world application through formulae and relationships.

A key part of your learning will be practical based, conducting and critiquing investigations is what a physicists does.

Key skills and dispositions:

Students that study Physics at Rangi show resilience in the face of difficulty. They have a positive mindset and show creativity in their thinking. Students have integrity in their own work. They collaborate with and support their fellow classmates to learn in a supportive environment.

Standards covered in this course:

Achievement Standard Number	Subject reference	Version number	Topic/Title	Mode of Assessment	Credits	Literacy or Numeracy
91169	2.2	2	Selected context	Internal	3	Lev 1 lit.
91171	2.4	2	Mechanics	External	6	Lev 1 l&n
91172	2.5	2	Atomic and Nuclear	Internal	3	Level 1 lit.
91173	2.6	2	Electricity	External	6	Lev 1 l&n