



## TIMELINE

Term 1	Wave Systems (E) & Modern Physics in context internal
Term 2	Mechanical Systems (E)
Term 3	Electrical Systems external or report on socio-scientific issue
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 13 include wave systems and modern physics (quantum physics), mechanical and electrical systems. 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 report based, researching and critiquing evidence and communicating your understanding of socio-scientific issues.

### 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
91522	3.2	2	Selected context	Internal	3	L1 lit
91523	3.3	2	Wave Systems	External	4	L1 lit
91524	3.4	2	Mechanical Systems	External	6	L1 lit
91525	3.5	2	Modern physics	Internal	3	L1 lit
91526	3.6	2	Electrical Systems	External	6	L1 lit
91527	3.7	2	Socio-scientific Issue	Internal	3	UE lit read

Note: students choose to do either AS91526 or AS91527