

School administrators and Heads of Learning Area – Science and teachers of Physics ATAR Year 11 are requested to note for 2027 the following minor syllabus changes. The syllabus is labelled ‘For teaching from 2027’.

Physics | ATAR Year 11 | Summary of minor syllabus changes for 2027

The content identified by ~~striketrough~~ has been deleted from the syllabus and the content identified in *italics* has been revised in the syllabus for teaching from 2027.

For teaching from 2027

Unit 1 – Science Understanding

Motion and forces

- velocity is defined as the rate of change in displacement of an object, including applying the relationship

$$v = \frac{s}{\Delta t} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_i}{t_f - t_i}$$

Unit 2 – Science Understanding

Ionising radiation and nuclear reactions

- Einstein’s mass/energy relationship relates the binding energy of a nucleus to its mass defect (Δm), including applying the relationship

$$\Delta E = \Delta mc^2$$

Electrical forces and energy

- the energy available to charges moving in an electrical circuit is measured using electric potential difference (ΔV), which is defined as the change in potential energy per unit charge between two defined points in the circuit, including applying the relationship

$$\Delta V = \frac{W}{q}$$