TCE Physics Information Sheet

Original worked revision examples with notes on units and assumptions.

Use the board PDF below for the official sheet. Coverage of examples varies by subject.

Official reference material

TASC PHY415115 Physics information sheet

What to work out beyond the sheet

Choose a positive direction first. A negative acceleration can represent slowing down or speeding up in the negative direction.

Formulas and worked examples

Motion · constant acceleration

Formula or reference: $v = u + at$

Units and conditions: Use m/s for speeds along a chosen axis, m/s^2 for acceleration and s for time.

Worked example: A vehicle travelling at +3 m/s and accelerating at +2 m/s^2 for 4 s reaches +11 m/s.

Waves · period

Formula or reference: $T = 1/f$

Units and conditions: Use frequency in Hz to find the period in seconds.

Worked example: An oscillator making 25 cycles each second has a period of 0.040 s.