

- 1 Define the **amplitude** of a wave
- 2 Define the **wavelength** of a wave
- 3 Define the '**crest**' or '**peak**' of a wave
- 4 Define the '**trough**' of a wave
- 5 Draw and label a wave diagram with the key words from the box below

amplitude
wavelength
peak
trough
undisturbed position

- 1 Recall the equation linking wave speed, wavelength and wave frequency
- 2 Rearrange the equation for wavelength
- 3 Rearrange the equation for frequency
- 4 What is the unit for a) **wave speed** b) **wavelength** c) **frequency**
- 5 The wavelength of a wave is 3 m, and the frequency is 2 Hz. Calculate its wave speed.
- 6 The wavelength of a wave is 0.03 m, and the frequency is 2800 Hz. Calculate its wave speed.
- 7 The wave speed is 3×10^8 m/s, and the frequency is 3×10^5 Hz. Calculate its wavelength.
- 8 The wave speed is 3×10^8 m/s, and the frequency is 2×10^{12} Hz. Calculate its wavelength.
- 9 The wavelength is 4×10^{-5} m, and the wave speed is 3×10^8 m/s Calculate its frequency.
- 10 The wavelength is 0.5 m, and the wave speed is 20 m/s Calculate its frequency.