

Zoom In Physical Sciences Grade 11

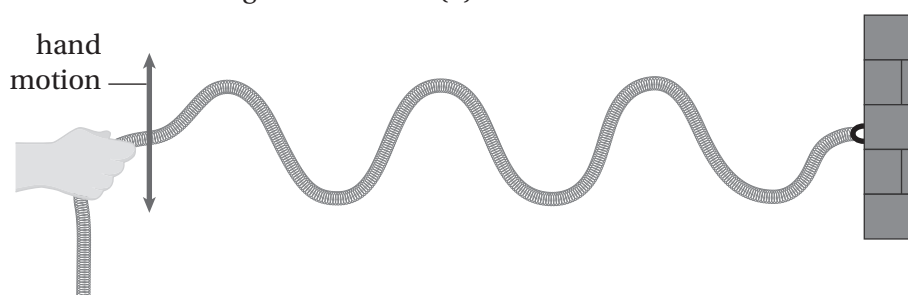
Worksheet 5

Transverse pulses

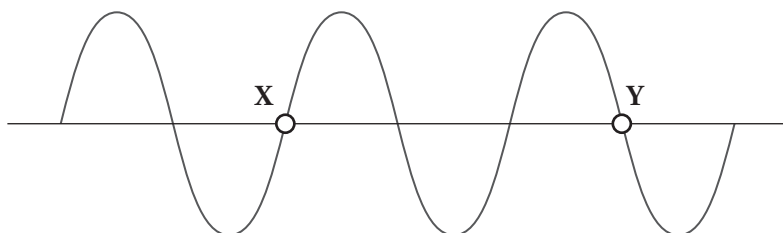
- 1 Draw a transverse pulse with pulse length 2 cm and amplitude 4 cm.
- 2 Draw the same pulse, but halve the amplitude.

Transverse and longitudinal waves

- 3 Which one of the following statements is FALSE?
A The distance between three consecutive compressions is two wavelengths.
B Two points in phase are an integer number of wavelengths apart.
C The amplitude is the distance between a crest and a trough.
D The tension of the medium influences the speed of a wave.
- 4 The wave in the diagram below is a(n) ... wave.



- A longitudinal
B transverse
C infrasonic
D spherical
- 5 The diagram below shows two points on a wave.



How many wavelengths are there between points X and Y?

- 1
- $1\frac{1}{4}$
- $1\frac{1}{2}$
- $1\frac{3}{4}$