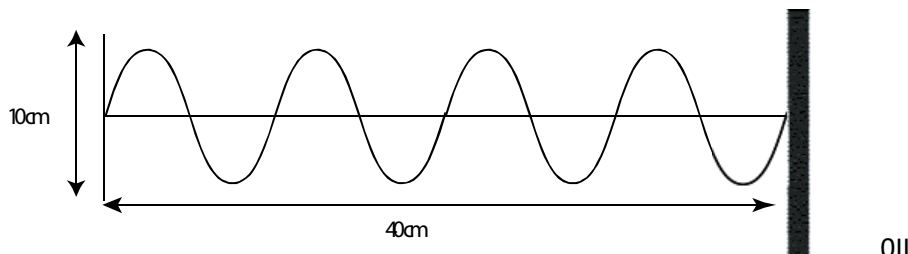


## Waves and Radiation

### Wave parameters and behaviours

- Knowledge that energy can be transferred as waves.
- Determination of frequency, period, wavelength, amplitude and wave speed for longitudinal and transverse waves.
- Use of appropriate relationships to solve problems involving wave speed, frequency, period, wavelength, distance and time.

1. Give an example of a longitudinal wave.
2. Give two examples of transverse waves.
3. In your jotter draw three crests of wave of wavelength 2.0 cm and amplitude 3.0 cm.
4. What is meant by the frequency of a wave?
5. Look at the wave train below. It took 0.4 seconds to completely pass the wall on the right.



- i) Work out the wavelength of this wave
- ii) Work out the amplitude of this wave.
- iii) Calculate the speed of the wave.
- iv) Calculate the frequency of the wave.
- iv) Calculate the period of the wave.
- vi) Find the product of frequency and wavelength
- vii) Write down a formula for the speed of a wave.