

Bellwork

How do you define
the speed of a
wave?

Notes

Wave a disturbance that carries energy from one location to another

Medium the material through which the wave travels

Amplitude the maximum distance the medium moves from its relaxed position

Symbol A units (m)

Wavelength the distance between any consecutive corresponding parts of a wave

Symbol λ

Units m

Period time it takes
for one complete
vibration

Symbol: T
Units: s

frequency number of
vibrations that occur
in one second

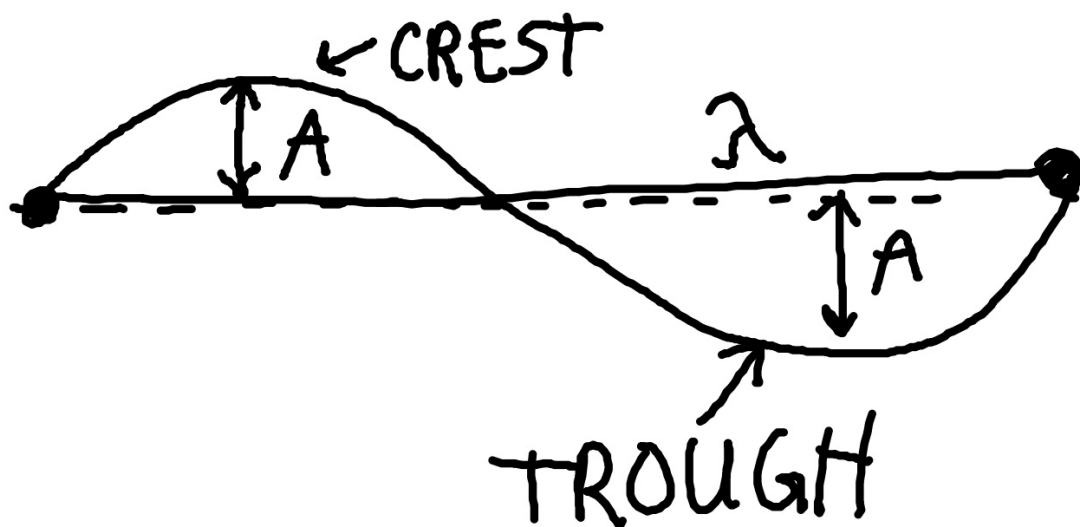
Symbol: f
Units: Hz (Hertz) = s^{-1}

Equations

$$T = \frac{1}{f}$$

$$V = f\lambda$$

Transverse Wave: the medium vibrates in a direction that is perpendicular to the direction the wave moves



Longitudinal wave the medium vibrates in a direction that is parallel to the direction the wave is moving

relaxed medium

