WAVE MOTION

Terminology of wave motion →:

(1) Time Period (T) → This is the time to complete one vibration.

$$\text{Time Period} = \frac{1}{\text{Frequency}(n)}$$

then $\boxed{T = \frac{1}{n}}$

(2) Intensity → Intensity is denoted by 'I'. The energy transferred by a wave in unit time, perpendicular to the direction of its propagation from the unit area, is known as wave intensity. ∴ Intensity $(I) \propto |A|^2$

Here The intensity of a wave is proportional to the square of the wave's amplitude.

(3) Amplitude (A) → The A of the wave is the maximum displacement of a particle of the medium from its equilibrium position.