THE WAVE EQUATION

The speed of a wave is the product of the wavelength and the frequency.

$$v=f\lambda$$

Quantity	Symbol	SI unit
speed	V	$\frac{\mathrm{m}}{\mathrm{s}}$ (metres per second)
frequency	f	Hz (or s^{-1})(hertz)
wavelength	λ	m (metres)

Unit Analysis

(frequency)(wavelength) = Hz m = s^{-1} m = $\frac{m}{s}$