SIMPLE HARMONIC MOTION & WAVES

Equations:

Frequency & Wavelength: $v = f \cdot \lambda$

Frequency & Period:

$$f = \frac{1}{T} \quad \text{OR} \quad T = \frac{1}{f}$$

Period of a Pendulum: $T_p = 2\pi \cdot \sqrt{\dfrac{L}{g}}$

T = time period
L = length
g = acceleration of gravity

Frequency of Beats:

$$f_{beat} = |f_1 - f_2|$$
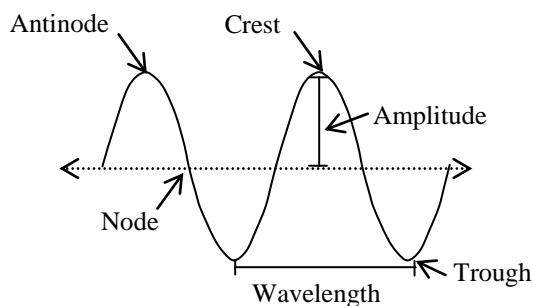
Speed of Sound:

$v = 331 + .6 \cdot T$ OR $v = 340$ m/s
  (*T = temperature in °C*)   (*velocity at average temperatures*)

Wave Vocabulary Terms:

Name	Symbol	Unit	Notes
Time Period	T	seconds	
Length	L	meters	
Wavelength	λ	meters	
Frequency	f	Hertz	