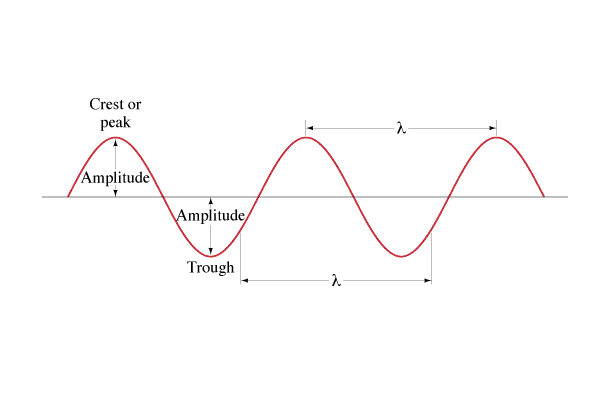
**Noteguide for Frequency, Wavelength and Velocity (Videos 12A) Name**



Define these terms:

|  |  |
| --- | --- |
| Medium |  |
| Amplitude |  |
| Wavelength |  |
| Wave speed |  |
| Period |  |
| Frequency |  |

Basic Formulas:

Example 1: What is the frequency of a wave that takes 0.12 s for the whole wave to pass by?

Example 2: What is the wavelength of an A 440.0 Hz if the speed of sound is 343 m/s?

Whiteboards:

|  |  |
| --- | --- |
| 1. What is the period of a 60. Hz wave? (0.017 s) | 2. What is the frequency of a wave with a period of 0.003906 s (256.0 Hz) |
| 3. What is the velocity of a 1.12 m wave with a frequency of 32 Hz? (36 m/s) | 4. What is the wavelength of a 89.1 MHz FM radio signal? 1 MHz = 106 Hz v = c = 3.00 x 108 m/s (Speed of light) (3.37 m) |
| 5. What is the frequency of a sound wave that has a wavelength of 45 cm, where the speed of sound is 335 m/s (740 Hz) | 6. What is the period of a 12.0 m long radio wave?  v = c = 3.00 x 108 m/s (Speed of light)  (4.00 x 10-8 s) |