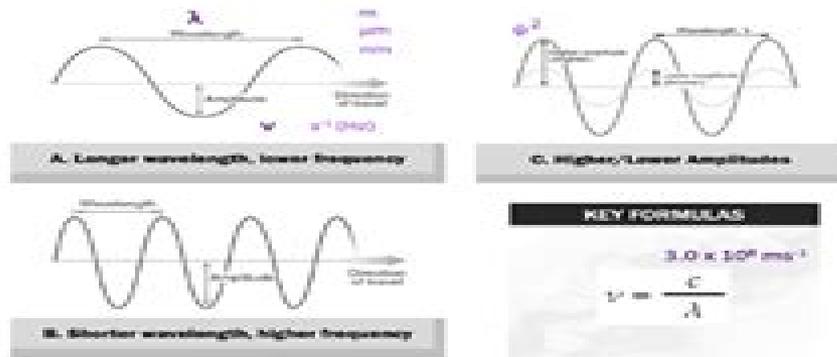


## Chapter 2

### 2.1 Atomic Theory

#### Electromagnetic Waves

- Electromagnetic waves are oscillations of an electromagnetic field that propagate through space at the speed of light
- Simple periodic waves are characterized by wavelength or frequency.
- Wavelength refers to the distance between two closest equivalent points of the wave
- Wavelengths are usually expressed in units of length
- Frequency refers to the number of oscillation cycles that occurs at a fixed point in one second



- A simple periodic wave propagating along an axis can be described by a sine function
- A sine wave has alternating phases above and below axis
- Amplitude= “height” of the wave
- Frequency and wavelength of an electromagnetic wave are related to each other through the formula
- The longer the wavelength, the lower the frequency
- The shorter the wavelength, the higher the frequency

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**G Psacharopoulos**



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**The Athenaeum** ,1912

**English Mechanics and the World of Science** ,1885     **Iron Trade and Western Machinist** ,1961     [Paperbacks in Print](#) ,1967     **Working Mother** ,2000-10 The magazine that helps career moms balance their personal and professional lives

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