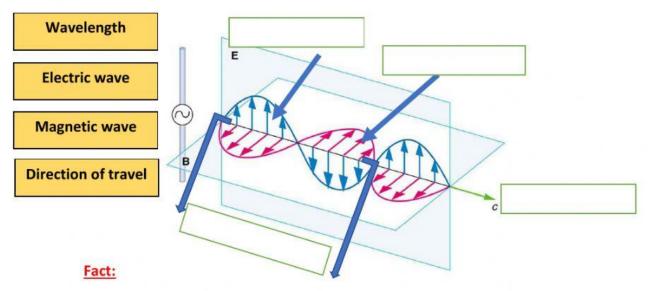


## lesson 1: Where do Light waves come from?

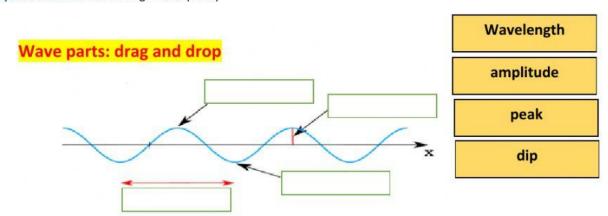
- · Light from the sun travels to earth:
- 1. 150 million Km.
- 2.  $8\frac{1}{3}$  minutes.
- · Light is made of vibrating electrical and magnetic energy
- · Energy travel as wave with frequency and amplitude called electromagnetic wave
- · Light wave vibrates perpendicular to the direction of their motion.



- 1. Light travel with or without medium.
- 2. Light travel in vacuum very fast at 300,000 km/s.
- 3. Light travel in transparent medium (air, water, glass) slower. In glass travels at 197,000 km/s.

Wavelength: is the distance between one peak and next in a wave.

Speed of Wave = wavelength X frequency



## **BLIVEWORKSHEETS**