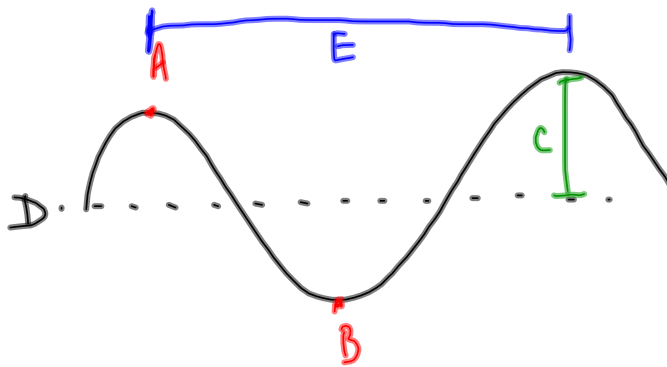


Review of Waves

- wave speed depends only on the properties of the medium (not on amplitude, frequency or wavelength)



- A - crest
- B - trough
- C - amplitude
- D - equilibrium position

- period \rightarrow time for 1 complete vibration / oscillation / rotation
(s) E - the wavelength
- frequency \rightarrow the # of vibrations in 1s
(s^{-1} or Hz)

$$T = \frac{\text{time}}{\text{cycles}} \quad f = \frac{\text{cycles}}{\text{time}}$$

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

- the universal wave equation:

$$v = \lambda f$$

$$\left(v = \frac{\Delta d}{\Delta t} \right)$$