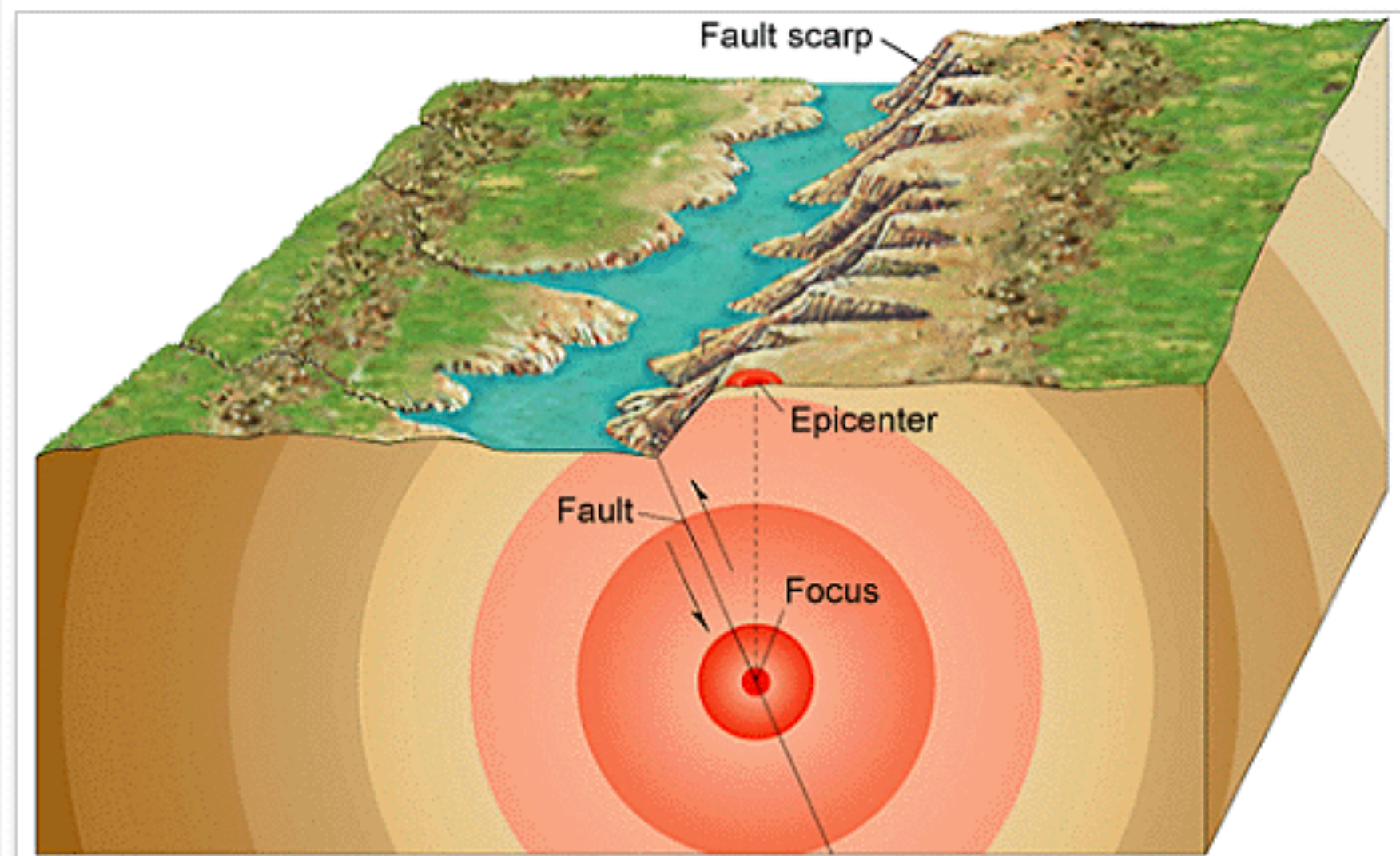


EPSC 221: GENERAL GEOLOGY

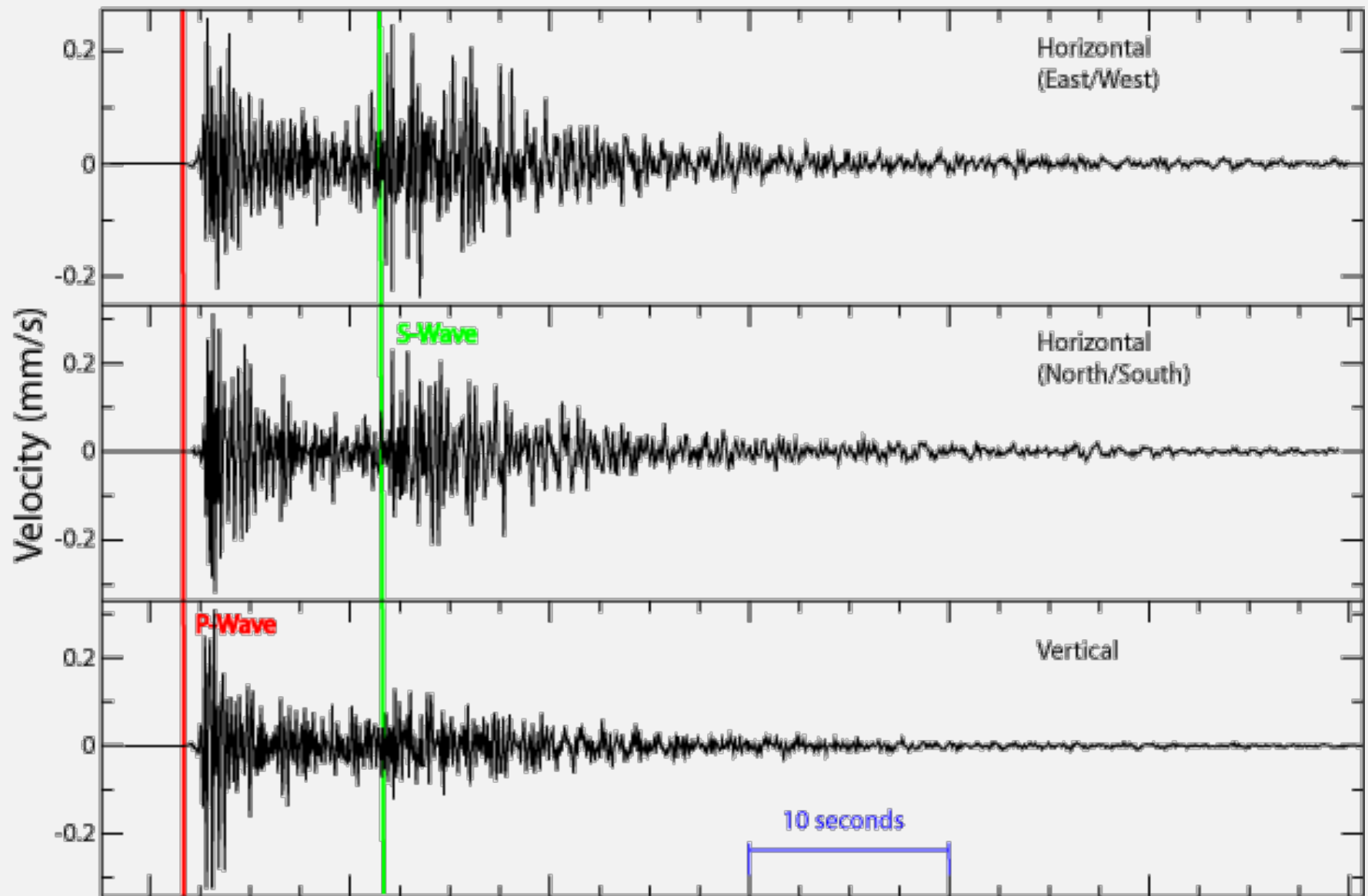
Lab 6:
Earthquakes

Earthquake

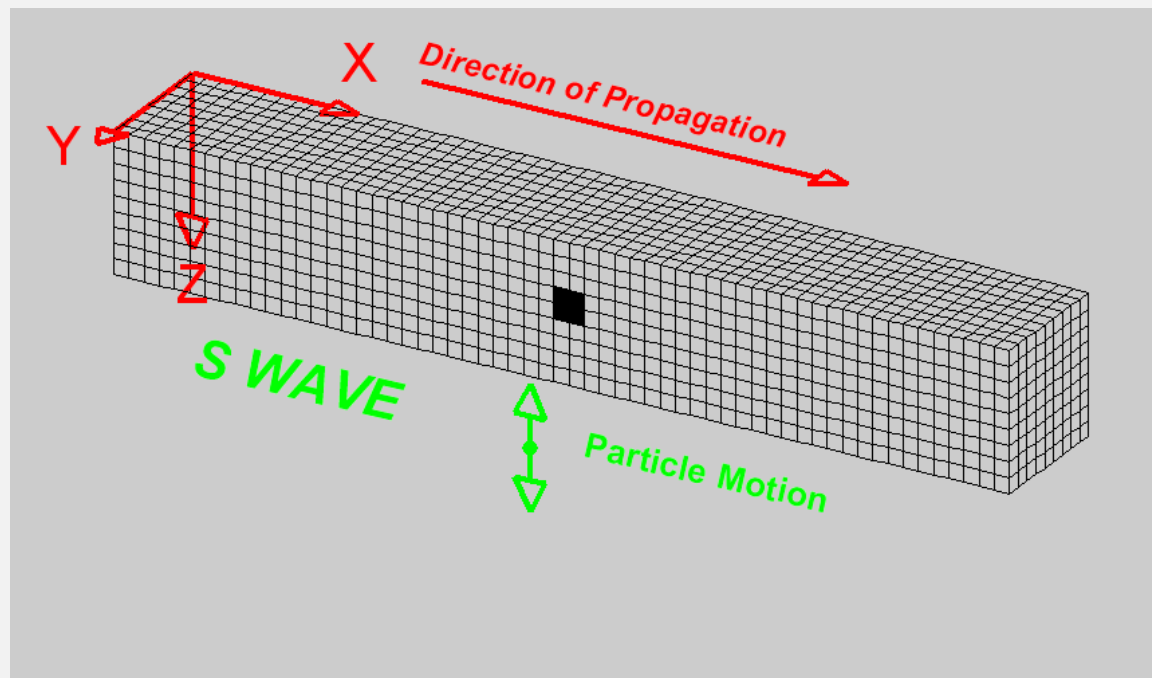
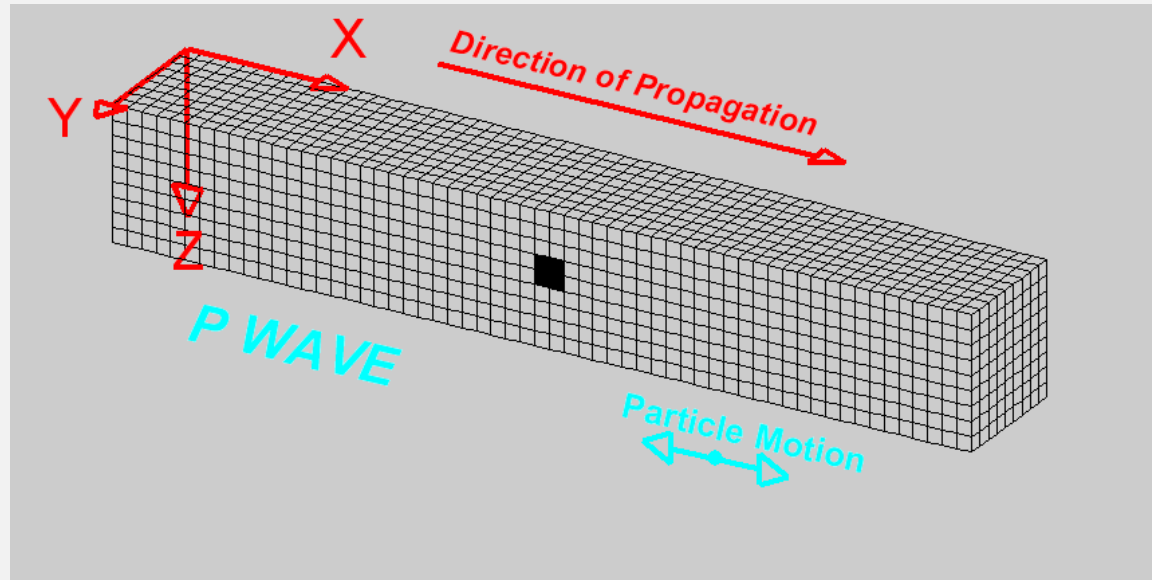


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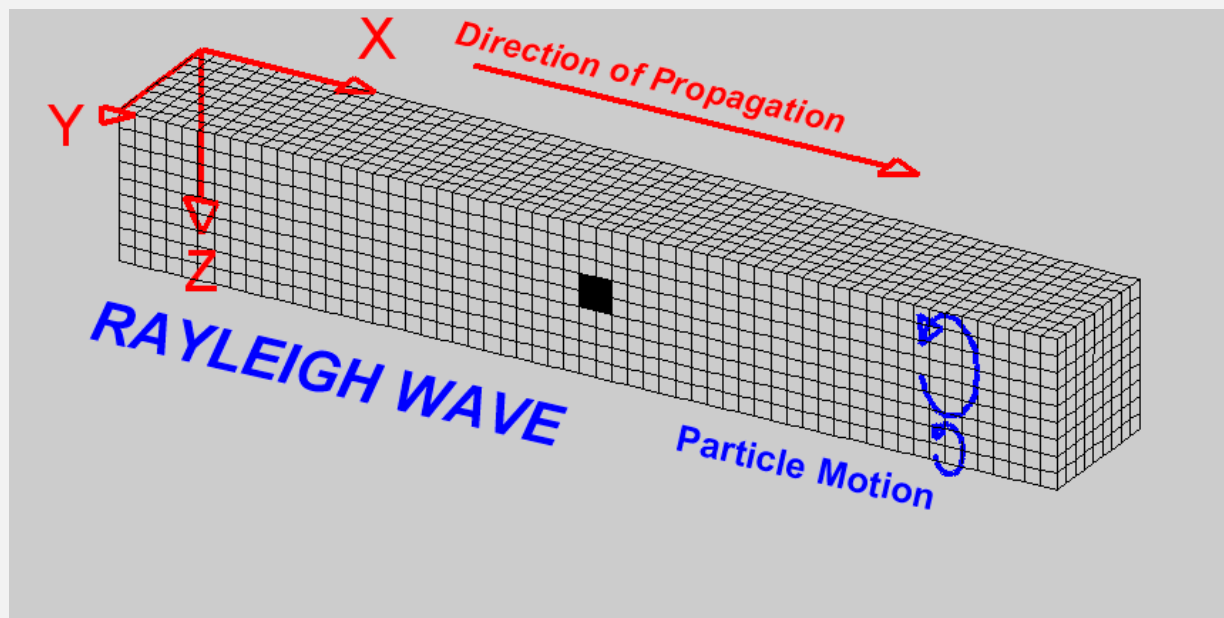
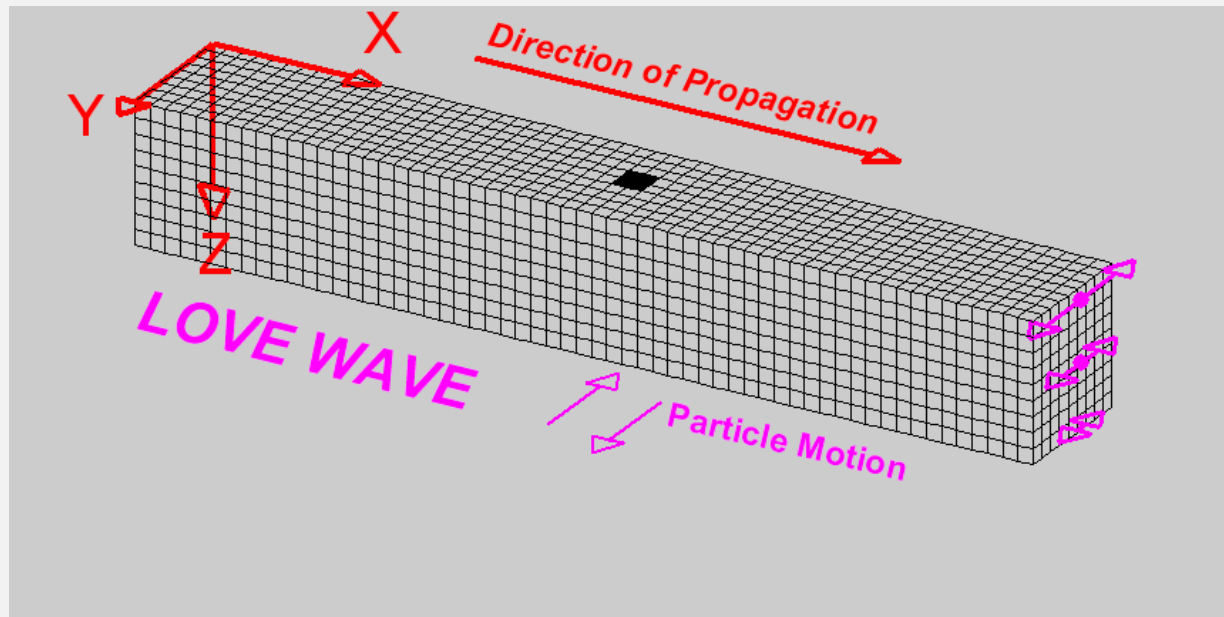
Seismogram



Body waves



Surface waves

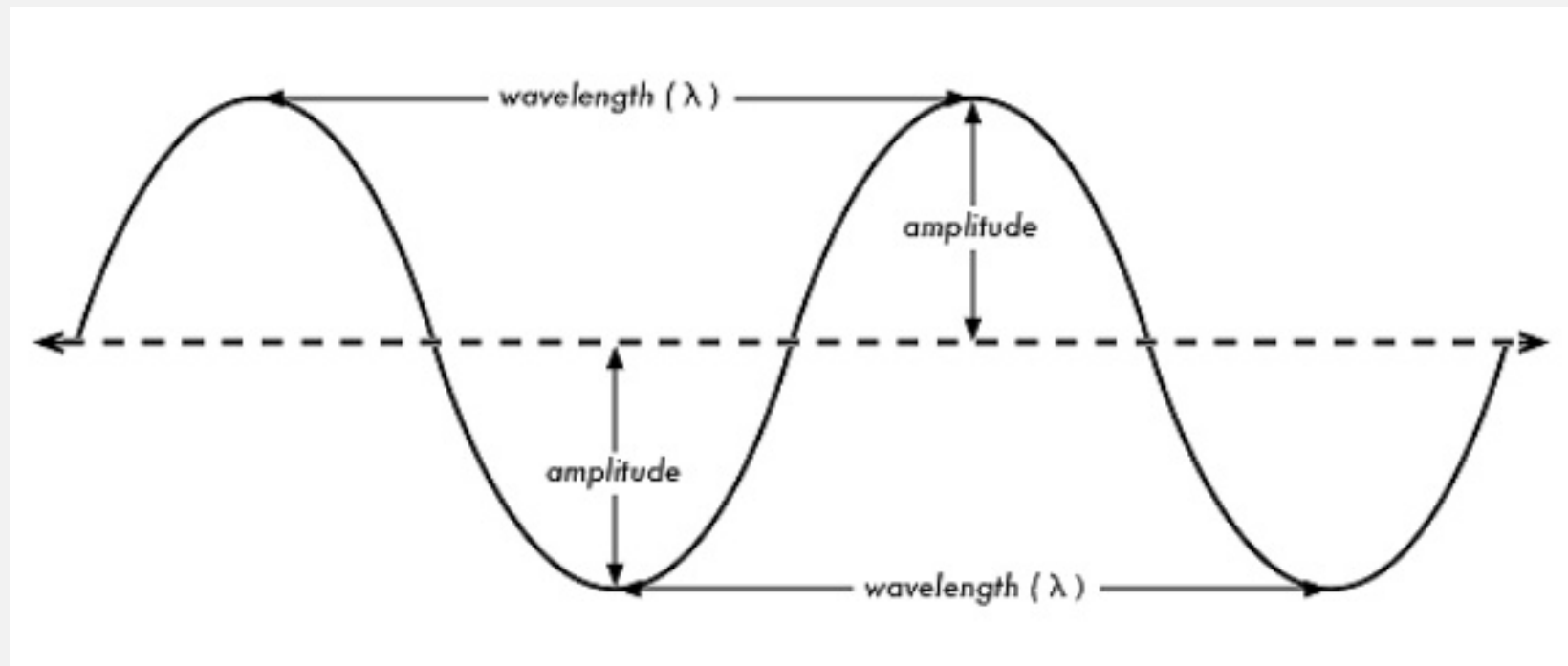


Wave terminology

AMPLITUDE: distance from the equilibrium position (balance position)

WAVELENGTH: distance from crest to crest, or from trough to trough, of a wave

Wave terminology



Wave terminology

PERIOD: the length of time it takes to complete a full cycle

FREQUENCY: number of cycles completed per unit of time

Wave terminology

$$f = \frac{\# \text{ cycles}}{\text{time}} = \frac{1}{T}$$

$$1 \text{ Hz} = 1 \text{ cps}$$