

Waves + Energy

Harmonic motion - is a motion that repeats in cycles.

The time to complete one cycle is a period.

"T" is measured in seconds [s]

The frequency is the number of cycles per second!

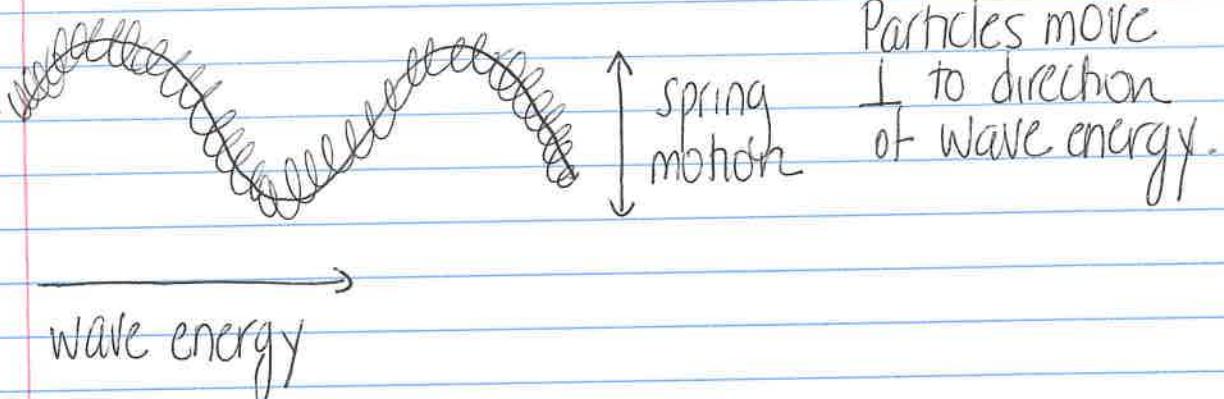
"f" is measured in Hertz (Hz)

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

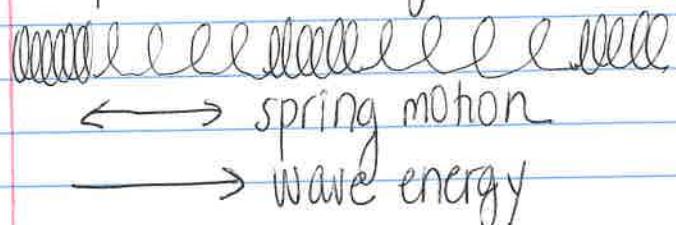
or $\left(\frac{1}{s}\right)$

Waves carry energy from one place to another.

Transverse Wave



Compressional / Longitudinal Wave



The particles move || to direction of wave energy.