**Characteristics of Waves**

* + Waves
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves
	+ Longitudinal waves
	+ Measuring waves
* **Waves**
	+ rhythmic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that carry energy through matter or space
* **Medium**
	+ material through which a wave transfers energy
	+ solid, liquid, gas, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ electromagnetic waves don’t need a medium (e.g. visible light)
* **Two Types:**

 Longitudinal Transverse



* **Transverse Waves**
	+ medium moves perpendicular to the direction of wave motion



* **Longitudinal Waves** (a.k.a. compressional)
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_ moves in the same direction as wave motion





* **Frequency** ***( f )***
	+ # of waves passing a point in 1 second
	+ Hertz (Hz)
	+ shorter wavelength ⇒ higher \_\_\_\_\_\_\_\_\_\_\_ ⇒ higher energy



