Review page 30 in textbook

**Key Topics**

* Be able to describe how energy travels by waves
* Mechanical waves need a medium to transfer the energy from one place to another
* Mechanical waves are classified by movement and can be transverse waves or longitudinal waves
* Know the parts of a transverse wave (pg. 8)
	+ Crest, trough, amplitude, wavelength, resting point
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Resting Position

* Know the parts of a longitudal wave (pg. 10)

 Compression, Rarefaction



* Be able to define the four basic properties of a wave

 Wavelength, Frequency, Amplitude and Speed

* Know the speed formula (S=W x F )

WAVELENGTH = $\frac{SPEED}{FREQUENCY}$

FREQUENCY = $\frac{SPEED}{wAVELENGTH}$

Speed = Wavelength x Frequency

* Be able to recognize the difference between reflection and refraction and diffraction



**Refraction**- When a wave enters a new medium at an angle, one side of the wave changes speed before the otherside, causing the wave to bend. (Think the angle of a straw in water.)

**Reflection** – When an object or a wave hits a surface through which it cannot pass, it bounces back. (Think a ball bouncing off a wall)

Items to help you study

 -Textbook, Notes, Teacher website (sample test, PowerPoint notes, websites) Cheat Sheet (index card) Homework/ Quizzes/ Worksheets