***Study Guide for Unit 3.3 Waves*** ![MCj03982930000[1]]()

Textbook Sections

19.1, 19.2, 20.1, 20.2

 **Vocabulary terms to know:**

Absorption

Amplitude

Antinode

Crest

Cycle

Damping

Diffraction

Equilibrium

Frequency

Fundamental

Harmonic motion

Harmonics

Hertz

Longitudinal

Node

Oscillation

Oscillator

Pendulum

Period

Plane Wave

Reflection

Refraction

Restoring force

Standing wave

Transverse

Trough

Vibration

Wave

Wavelength

Wave Front

**Concepts to Review**

* Be able to draw and label parts of a wave (crest, trough, amplitude, wavelength, etc.)
* Be able to use and manipulate the following formulas. Define the symbols

T = $\frac{1}{f}$ f = $\frac{1}{t}$ v = f x λ

* Be familiar with Pendulum Lab and the effect of mass, length, and amplitude.
* Describe what kind of a wave in generated if you drop a rock in a pond or when you push water in a container with a ruler (Ripple Tank lab)
* Describe ways the earth might be considered an oscillation system
* Explain the difference between absorption, diffraction, refraction and reflection. Be familiar with diagrams of each.
* Know which waves are fastest to slowest between sound waves, light waves and water waves