**Physics Review**

**Vibrations + Waves**

* Hooke’s Law
* Simple Harmonic Motion
* Properties of waves
* The simple pendulum
* Dampened Oscillations
* The difference between mechanical waves + electromagnetic waves
* Types of waves: Transverse + Longitude
* Speed of wave
* Wave boundaries
* Incident waves
* Reflected waves
* Interference of waves
* Superposition principle

**Sound**

* Know what sound actually is
* Understand how the speed of sound works
* Understand what sound intensity is
* Spherical Waves
* Planar Waves
* Understand the Doppler effect
* Understand how shock waves work
* Understand how sound waves interfere with each other
* Standings Waves – This one is major
* Understand how we analyze real waves
* Resonance – Another major one
* Understand Beats
* Quality of sound – Important to know but there will not be many questions on this