

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