Test 6 topic summary: Lectures 20-23

Simple Harmonic Motion

- Calculate f, T and/or ω of spring and pendulum motion
- Know what is going on at the amplitudes and the center of the oscillations and the time between these locations for a spring and a pendulum
- Read x(t) plots for a spring
- Determine v_{max} of a mass on a spring
- Identify correct equation for a spring

Waves and Sound

- Identify the wavelength and/or frequency of a wave
- Relate wavelength and frequency to wave speed
- Predict what happens when waves overlap
- Identify nodes and antinodes on a standing wave
- Identify wavelength of fundamental or higher harmonics in open and closed tubes or a string
- Relate changes in intensity to changes in loudness and vice-versa

Test 6 diagram sample