

PsychSim 5: THE AUDITORY SYSTEM

Name: _____ **Section:** _____

Date: _____

This activity explores how we hear and how the physical nature of the sound wave determines the quality of the sound experience.

The Auditory System

- What are the four tasks of the auditory system?

- 1.
- 2.
- 3.
- 4.

Structure of the Ear

- What are the three main regions of the ear and their associated parts?

- 1.
- 2.
- 3.

The Sound Wave

- How are sound waves like ocean waves?

- What are the three aspects of sound waves?

- 1.
- 2.
- 3.

Frequency: The Rate of Vibration

- Which type of tuning fork would vibrate faster—a small, short one or a large, long one? Why?

- How is frequency measured and calculated?

Frequency, Amplitude, and Waveform

- The frequency of a sound wave determines the _____ of the sound we perceive.
- The amplitude of a sound wave determines the _____ of the sound we perceive.
- The waveform of a sound wave determines the _____ of the sound we perceive.

Hearing Sounds

- What happens inside the cochlea?