



## Student Exploration: Hearing: Frequency and Volume

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

*[Note to teachers and students: This Gizmo involves listening to and comparing faint sounds. It is recommended that students use headphones and that the room is kept as quiet as possible.]*

**Vocabulary:** decibel, equal-loudness curve, frequency, hertz, logarithm, pitch, threshold, volume

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. A dog whistle emits a sound that dogs can hear but humans cannot. Why do you think dogs can perceive this sound?

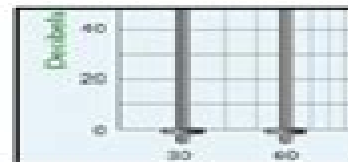
dogs can hear higher frequencies


2. How do you think your ability to perceive different sounds might change as you age?

sound frequencies decrease

### **Gizmo Warm-up**

Have you ever wondered how good your hearing is? The *Hearing: Frequency and Volume* Gizmo allows you to test how well you hear tones at different **frequencies**. The frequency of a sound wave is measured in **hertz** (Hz), where 1 Hz is equal to one wave passing each second. Frequency is related to the **pitch** of a sound, or whether it sounds high (like a whistle) or low (like a tuba).



Before you begin, be sure you are in a very quiet setting. Headphones are recommended for this Gizmo. Set the **System volume** to 1 and click the **test** button (  ). Adjust the **System volume** and your computer so that you hear a moderately loud tone when you click **test**.

1. Drag the **60-Hz** slider and the **4,000-Hz** slider to the top and click **Play** for each sound.

Describe what you hear. **[10]**

At 60 Hz, I very soft, faint tone (noise), at 4000 Hz, I heard a very sharp, loud tone (noise)

# Frequency Explorations Answer Key

**J Elliott**



## **Frequency Explorations Answer Key:**

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