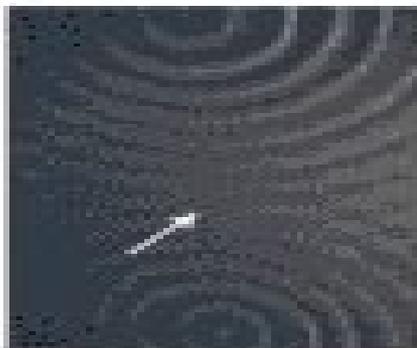


Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Sound Beats and Sine Waves

**Vocabulary:** amplitude, beat, constructive interference, crest, destructive interference, frequency, hertz, sound waves, trough



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

1. The picture at left shows water ripples interacting. What do you notice about the area indicated by the arrow?

\_\_\_\_\_

2. Why do you think there are no distinct ripples in the area indicated by the arrow?

\_\_\_\_\_

\_\_\_\_\_

### Gizmo Warm-up

Just like ripples on the surface of water, **sound waves** can interact with and influence each other. You can use the **Sound Beats and Sine Waves Gizmo™** to explore two different types of sound wave interactions.

If you have headphones available, put them on now. Under **Visual**, turn on **Sound A**. Click the **PLAY** icon (▶) next to the **Sound A** slider. Listen closely to the sound. Now, click **PLAY** next to the **Sound B** slider.

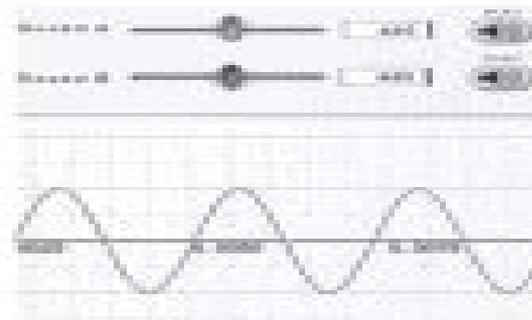
1. How do the two sounds compare? \_\_\_\_\_

\_\_\_\_\_

2. Click the **PLAY** icon under the word **Auditory** to play Sound A and Sound B together. How does this sound differ from Sound A and Sound B when they are played alone?

\_\_\_\_\_

\_\_\_\_\_



# Sound Beats And Sine Waves Gizmo Answers

**Arturo Cuomo**



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