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Student Exploration: Ripple Tank

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

Vocabulary: constructive interference, crest, destructive interference, diffraction, Huygens' Principle, interference, law of superposition, node, refraction, trough, wave, wavelength

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

- The image below shows small ripples, or **waves**, moving through water in a pond. Highlight the description below that you think describes the motion of a wave most accurately.

- Each wave consists of a set of water molecules moving outward from the center.
- When a wave passes, water molecules move up and down before returning to near their original position.



Either hand draw or click here to **EDIT** to use the drawing tool.

- Waves have **crests** (high points) and **troughs** (low points). The **wavelength** of a wave is the distance between adjacent crests (or troughs). Label the crests, the trough, and the wavelength on the image at left.

Gizmo Warm-up

A ripple tank, such as the one shown in the *Ripple Tank* Gizmo, is a shallow pan of water with a vibrating motor that produces waves. The tank is lit from above so that the wave crests and troughs are visible. Ripple tanks are particularly useful because many properties of water waves are shared by other kinds of waves that are harder to see.

Check that **Open tank** is selected and the **Wavelength** is 4.0 cm. Click **Play** (▶) and observe. Click **Pause** (⏸) when the first wave reaches the right edge of the tank.

- The light regions represent troughs while the dark areas represent crests. About how much simulation time does it take the wave to cross the tank?

about 2 s

- Click **Reset** (↺). Set the **Wavelength** to 16.0 cm, and click **Play**. Click **Pause** when the waves reach the edge. How did increasing the wavelength affect the shape and speed of the waves?

The waves were wider and moved faster. Took 1.0 s



Ripple Tank Gizmo Answers

M Mosston

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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