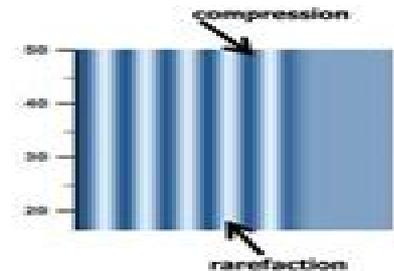


## Student Exploration: Ripple Tank

Ripple tanks are particularly useful because many properties of water waves are shared by other kinds of waves that are harder to see. 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 that can be compared to *longitudinal* waves. The tank is lit from above so that the areas of *compressions* and *rarefactions* are visible. The light regions represent rarefactions (the water is less deep so the light shines through it), while the dark areas represent compressions (the water is deeper so light does not penetrate as well).



### Exploration A: Factors that control diffraction

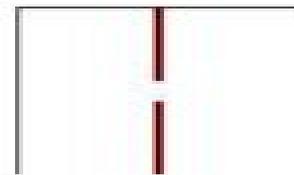
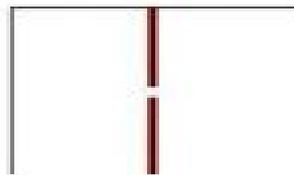
Get the Gizmo ready:

- Select **Barrier with 3-cm gap** from the Scenario menu.
- Check that **Wave strength** is 1.20.
- Set the **Wavelength** to 6.0 cm.



The ability of waves to spread from a point such as the gap in the barrier is called **diffraction**. This ability allows waves to turn corners in ways that individual particles cannot.

1. Investigate: Click **Play**, wait for the waves to reach the right side of the tank, and click **Pause**. Sketch the waves in the diagram on the left, below. Click **Reset**, and repeat the procedure with the **Barrier with 6-cm gap** selected. (You will have to set the **Wavelength** to 6.0 cm again.) Sketch the waves in the diagram on the right.



Which diagram shows more bending of the wave as it passes through the gap? \_\_\_\_\_

2. Predict: Which wave do you think will bend more when it passes through a barrier with a 10-cm gap: A wavelength of 5.0 cm or a wavelength of 30.0 cm? \_\_\_\_\_
3. Test: Select the **Barrier with 10-cm gap**. Play simulations with wavelengths of 5.0 cm and 30.0 cm. What do you notice? \_\_\_\_\_
4. Summarize: In general, what is the relationship between diffraction and the ratio of wavelength to gap width? \_\_\_\_\_

### Exploration B: Interference (when waves combine)

Get the Gizmo ready:

- Select **Single central source**. Check that the **Wavelength** is 16.0 cm.
- Set the **Wave strength** to 1.00.



1. Observe: Press **Play**. Describe the waves you see: \_\_\_\_\_

# Explore Learning Student Exploration Answers Ripple Tank

**J Elliott**



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