

**CONCEPTUAL PHYSICAL SCIENCE****Activity****Waves and Sound****Wave Mechanics Simulation**

# Water Waves in an Electric Sink

**Purpose**

To observe and control waves in a ripple tank simulation to learn the basics of wave mechanics

**Apparatus**

computer

PhET simulation "Wave Interference" (available at <http://phet.colorado.edu>)

**Discussion**

The ripple tank is an effective (though cumbersome) classroom device used for demonstrating and exploring wave phenomena. A simple version is shown on page 254 in your text. More elaborate ones resemble a small glass table with raised edges. Water is poured onto the table and kept from spilling by the raised edges. Typically, a strong point light source is placed above the tank, and shadows of ripples can be seen below the tank. A small ball attached to a motor bobs in and out of the water to make waves with consistent amplitude and wavelength.



Figure 1. A Ripple Tank

A variety of wave phenomena can be demonstrated using the ripple tank. This activity uses a ripple tank simulation, so you'll be able to investigate waves without the water.

**Procedure****PART A: CRESTS AND TROUGHS**

**Step 1:** When the simulation opens, you will see a faucet dripping water into a large sink. The drops create ripples in the water in the sink.

**Step 2:** Locate the "Rotate View" slider in the control panel on the right side of the window. Drag the slider to the right. Doing so rotates your view of the sink from a top view to a side view.

**Step 3:** Locate the "Pause" button at the bottom of the window. Try to pause the animation when the water under the faucet rises to its highest point (close to or touching the faucet itself).

**Step 4:** Locate the "Show Graph" button below the blue water of the ripple tank. Click it to activate the graph. Notice that the graph and the side view of the water match each other.

**Step 5:** Slide the "Rotate View" slider back to the left so that it shows the top view of the water.

# Water Waves In An Electric Sink Answer Key

**Clifford Lane**



## **Water Waves In An Electric Sink Answer Key:**

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## **Water Waves In An Electric Sink Answer Key** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Water Waves In An Electric Sink Answer Key**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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