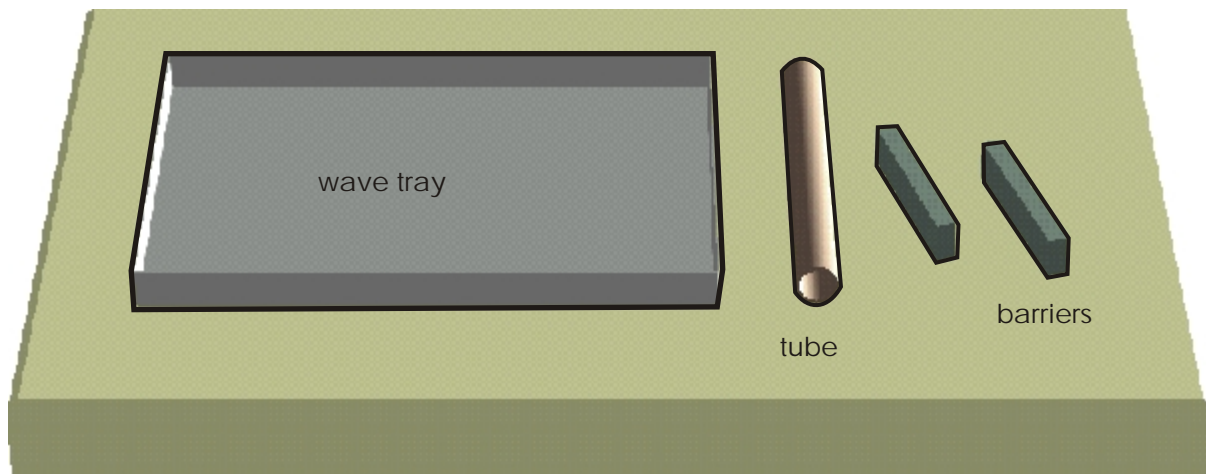


Wave Tray

Setup Instructions

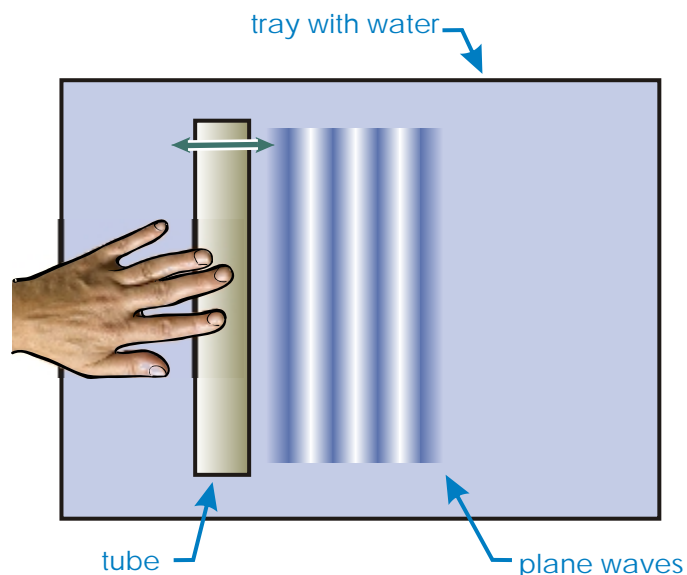
The Wave Tray

The wave tray comes with a tube for making plane waves in water. Also included are two rectangular blocks or barriers. Use these barriers in the water-filled tray to conduct experiments in reflection and diffraction.



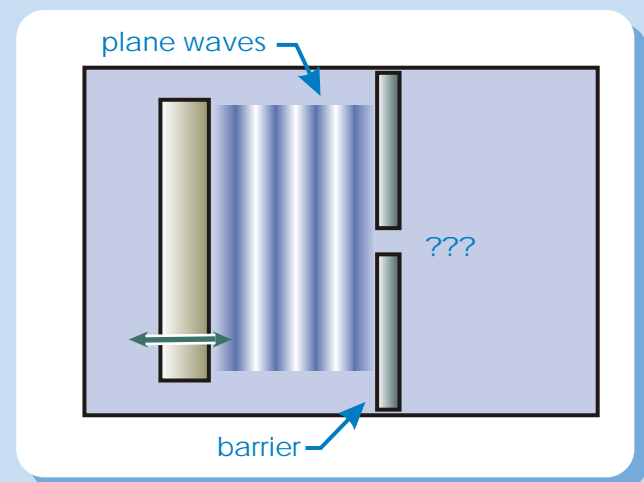
Making Plane Waves

Place the tray on a white surface. Fill the tray with water from a glass or beaker. One half liter is sufficient to perform most experiments. Place the tube in the water at one end of the tray. Then slowly rock it back and forth with your fingers. You will be able to observe plane waves, sometimes called straight waves.



Using Barriers to Diffract Waves

Place the rectangular barriers in the tray in line so that there is a gap of about 2cm between them, as shown. Make plane waves with the tube. What do the waves look like after they pass through the gap?



Other Activities

For activities, refer to the *Physics, A First Course Investigations* manual or *Teacher's Guide*.

Visit us at cpscience.com. If you need technical assistance, please call 866.588.6951.