

Student Exploration: Ripple Tank

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. Circle 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.

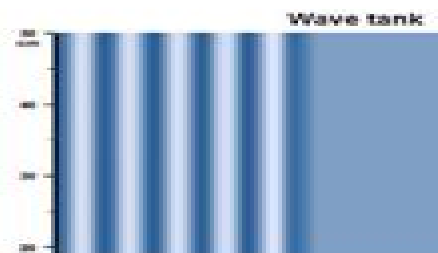


- Waves have **crests** (high points) and **troughs** (low points). The **wavelength** of a wave is the distance between adjacent crests (or troughs). Label the crests, the trough, and the wavelength on the image at left.

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? almost 2 sec

- 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 speed of the waves increased to 1.0 sec as the waves became wider

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web overall the experiment succeeded in showing that temperature and pressure for an ideal gas at constant volume and mass follow the relation of the ideal gas equation differences existed in the experimental graph of temperature versus and pressure and the theoretical curve of temperature versus pressure

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web we then changed the volume between 5ml and 20ml and recorded the pressure at each this part of the lab showed that volume and pressure are inversely proportionate as the pressure would decrease if the volume was increased part b of the experiment looked at the relationship between temperature and pressure

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web procedure 1 the relationship between pressure and volume set the plunger of the syringe to 1 10 the capacity of the syringe the 20 ml mark if using a 20 ml syringe the volume is read from the edge of the bottom rib of the plunger attach the syringe to the connector at the end of sensor

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1 267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1 273 and concluded that the pressure would approach zero at 1 273 degrees c

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web the volume of 1 00 mol 1 00 mol of any gas at stp standard temperature 273 15 k and pressure 1 atm is measured to be 22 414l 22 414 l we can substitute 101 325kpa 101 325 kpa for pressure 22 414 l 22 414 l for volume and 273 15 k 273 15 k for temperature into the ideal gas equation and solve for r r

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of gases 273 15 k and 1 atm 101 325 kpa 1 at stp one mole of an ideal gas has a volume of about 22 4 l this is referred to as the standard molar volume figure 9 18

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web this lab explores the relationships between pressure volume and temperature in an ideal gas the ideal gas law $pV = nRT$ is used and with it we can explore it by seeing how the pressure and volumes changed in the tubes each time that we

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web figure pageindex 10 since the number of moles in a given volume of gas varies with pressure and temperature changes chemists use standard temperature and pressure 273 15 k and 1 atm or 101 325 kpa to report properties of gases

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web volume pressure kpa linear pressure kpa volume ml pressure kpa in part b we observed the relationship between temperature and pressure the pressure of the 125 ml flask was at 101 36 kpa when the temperature was at 23 2 c

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web pressure increases even though there were errors in the experiment the goal of the experiment was met the goal of declaring what type of relationship it is was clear using the data pressure kpa temperature c temperature k constant k p t 95 82 kpa 16 0 c 289 k 0 33 97 90 kpa 19 0 c 292 k 0 34 98 97 kpa 99 22 kpa 101 4 kpa 19 1 c

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web the properties of water at constant volume can be represented as a function of pressure and temperature as shown in the diagram below figure 1 the pressure temperature relationship at constant volume the saturation point of water is the condition at which a phase change occurs from liquid to vapour or vapour to liquid

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web figure pageindex 5 the empirically determined relationships among pressure volume temperature and amount of a gas the thermometer and pressure gauge indicate the temperature and the pressure qualitatively the level in the flask indicates the volume and the number of particles in each flask indicates relative amounts