

Student Exploration: Temperature and Particle Motion

Essential Question: How do the temperatures of gases reflect the kinetic energy of the particles? How do the temperatures of liquids reflect the kinetic energy of the particles?

<p>Learning GOALS:</p> <p>Knowledge:</p>	<p>Learning GOALS:</p> <p>1. Explain how the temperature of a gas is related to the kinetic energy of the particles.</p>	
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Question: How do the temperatures of gases reflect the kinetic energy of the particles?

- Collect:** Use the Temperature and Particle Motion simulation. Consider the particles motion at 100 K.
- Analyze:** The temperature of a substance is a measure of the average kinetic energy of the particles (translational, vibrational, and rotational). The kinetic energy of a particle is proportional to its mass and the square of its velocity.
 - Based on the formula for kinetic energy, how will the temperature change if you increase the average velocity of the molecules ten fold?
 - How will the temperature change if you increase the mass of the gas molecules?
- Apply:** Oxygen molecules are diatomic molecules (two hydrogen molecules). At the same temperature, will oxygen molecules move faster than hydrogen molecules?
- Collect:** Use your simulation to measure the temperature of the gas.
- Apply:** Based on the definition of temperature, explain why oxygen molecules move faster than hydrogen molecules at the same temperature.

<p>Learning GOALS:</p> <p>Knowledge:</p>	<p>Learning GOALS:</p> <p>1. Explain how the temperature of a gas is related to the kinetic energy of the particles.</p>	
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Question: How do the temperatures of liquids reflect the kinetic energy of the particles? How do the temperatures of solids reflect the kinetic energy of the particles?

Question: How do the temperatures of solids reflect the kinetic energy of the particles?

- Collect:** Use the Temperature and Particle Motion simulation. Use the data to create the graph of the temperature of the solid.

Gizmo Temperature And Particle Motion Answers

VM Jensen

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the VM Jensen text.

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