



Name:

Date:

## Student Exploration: Phase Changes

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** altitude, boil, boiling point, freeze, freezing point, gas, liquid, melt, melting point, phase, solid

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. A family from Minnesota turns off the heat and flies to Florida for a winter holiday. When they come home, all of their water pipes have burst. What do you think happened?

2. Spaghetti takes about 9 minutes to cook at sea level, but about 14 minutes in the mountains. Why do you think this is so?

### Gizmo Warm-up

In the *Phase Changes* Gizmo, select **Micro view** and set the **ice volume** to 50 cm<sup>3</sup>. Notice the nitrogen (  ), oxygen (  ), and water (  ) molecules.

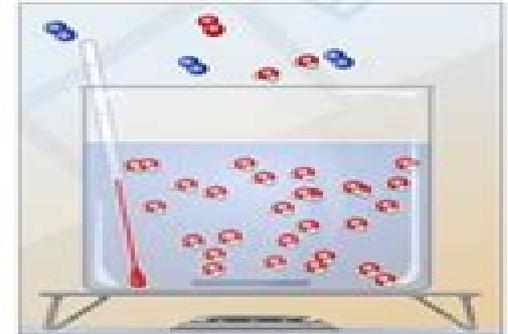
Click **Play** (  ) and observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

1. In which phase(s) are the molecules held rigidly together?

2. In which phase(s) do the molecules move freely?

3. In which phase(s) are the molecules held in a defined shape?

4. In which phase(s) do the molecules take the shape of their container?



# Explore Learning Gizmo Answer Key Phase Changes

**M Woodhall**



**Explore Learning Gizmo Answer Key Phase Changes:**

## **Explore Learning Gizmo Answer Key Phase Changes** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Explore Learning Gizmo Answer Key Phase Changes**, a literary masterpiece that delves deep into the significance of words and their impact 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 is key themes, examine its writing style, and analyze its overall effect on readers.

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