



Name: Amara Owen

Date: 07-08-2022

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?

The water in the pipe froze and made them burst

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?

There, the water has a lower boiling point, which results in colder water and slower pasta cooking

Gizmo Warm-up

In the *Phase Changes Gizmo*, select **Micro view** and set the **Ice volume** to 50 cm³. 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?

Solid

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

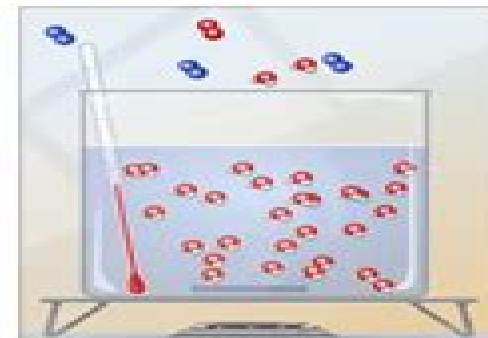
Gas and liquid

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

Solid and liquid

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

Liquid



Phase Change Gizmo Answer Key

Kathleen Armour

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Phase Change Gizmo Answer Key:

Whispering the Strategies of Language: An Mental Quest through **Phase Change Gizmo Answer Key**

In a digitally-driven world where displays reign supreme and immediate interaction drowns out the subtleties of language, the profound strategies and mental subtleties hidden within words frequently get unheard. However, nestled within the pages of **Phase Change Gizmo Answer Key** a interesting literary treasure blinking with organic thoughts, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, this enchanting opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound influence resonating within the very material of every word. Within the mental depths of the emotional evaluation, we will embark upon a genuine exploration of the book is primary subjects, dissect their interesting writing type, and succumb to the powerful resonance it evokes deep within the recesses of readers hearts.

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