



Name: Ian Thornton

Date: 10/25/21

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 pipes froze to fast and the pressure caused the pipes to 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?

Because

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?

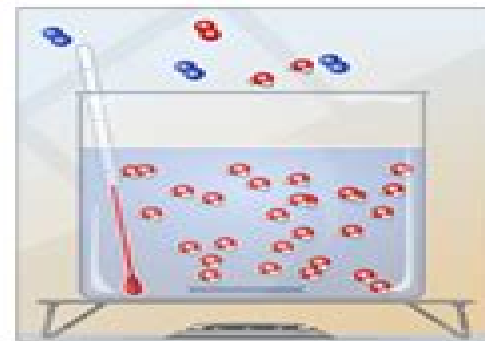
Gas and liquid

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



Student Exploration Phase Changes Answer Sheet

Activity B

Zhe Xu



Student Exploration Phase Changes Answer Sheet Activity B:

Student Exploration Phase Changes Answer Sheet Activity B Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Student Exploration Phase Changes Answer Sheet Activity B**, a literary masterpiece that delves deep to the significance of words and their affect 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 shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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