



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 cm³. Notice the nitrogen (), oxygen (), and water () molecules.

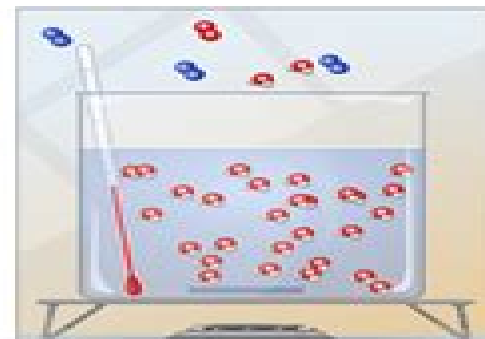
Click **Play** () and observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

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

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?



Gizmo Warm Up In The Phase Changes Answers

Liying Dong

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.

Gizmo Warm Up In The Phase Changes Answers:

New Scientist ,2006 **Los Angeles Magazine** ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian F & S Index United States Annual ,2005 *New York Magazine* ,1993-03-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea Stanford Exploration Project ,1987
Power ,1972 **Power and the Engineer** ,1977 Wines & Vines H. F. Stoll,2012

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