

Exploration Student Worksheet: Changing States

Overview

In this Exploration, you will learn that when you add heat to a substance, you can change its state from solid to liquid or from liquid to gas.

Questions

1. Which processes change the state of a substance from solid to liquid and from liquid to gas?

2. Why do you think that the particles in a gas are farther apart than in a liquid?

3. Predict how a liquid would react if heat was taken away, rather than added.

5. What is the difference between solids, liquids, and gases?

How to Use This Exploration

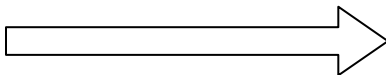
1. Read the Introduction and click the **Continue** button.
2. Read the text and follow the instructions. Predict what changes will happen for each situation.
3. Watch the animation and read the outcome explanations as they appear. Record findings in the data table.
4. Click the **Previous** button to go back to the previous instruction. Click the **Next** button to move ahead in the Exploration.
5. Click the **Reset** button to restart the screen.
6. Click the **Close** button to close the Exploration.

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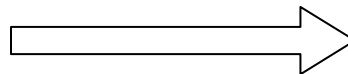
Data

Write the names of the processes and the temperatures at which water changes its state.

Solid
(Ice)



Liquid
(Water)



Gas
(Water vapor)

Process:

Temperature:

Process:

Temperature: