

## States of Matter – PhET Simulator

**Instructions:** Open the States of Matter: Basics simulator via the PhET website or app.

Choose the “States” option. Change the temperature setting to “Celsius” above the thermometer.

- 1) Use the menu on the right side to select **Water** atoms, then choose the **Solid** state of matter. Draw a diagram of solid water below, and then describe the molecules in the next space.

| Diagram                                                                           | Description                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|  | <p>The water molecules are all very close together and vibrating slightly. Very little movement occurring.</p> |

- 2) Use the slider on the bottom to add heat (hold the fire upwards to heat). Note the thermometer changing as heat is added. What happens to the water molecules as heat is increased?

As heat is added, the water molecules begin to move more and separate from each other. They move farther and further apart.

Experiment with the water molecules by adding and removing heat. Note the phase changes.

- 3) What is the approximate the melting point of water in Celsius?

(Hint: Check the temperature when this phase change occurs.)

0 degrees Celsius

- 4) How does the behavior of the water molecules below the melting point differ from water molecules that are above the melting point?

Below the melting point, molecules move slowly and close together. Above the melting point, molecules separate and move faster.

# Answer Phet Lab States Of Matter

**Annelies Wilder-Smith**



**Answer Phet Lab States Of Matter:**

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