



NAME :

DATE :

UNIT 4: MATTER – ANSWER KEY



ICE NAVIGATORS JOURNAL

What are the three states of matter?

1. Solid
 2. Liquid
 3. Gas
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What are the properties or characteristics of each state of matter?

Matter takes on different forms depending on how the atoms (the smallest particles of matter) are arranged.

1. Solid: In solids, atoms are **packed** closely together, so most of them have a **fixed** shape.
 2. Liquid: In liquids, atoms are **closed** together; they **slide** around, so they have an **unfixed** shape.
 3. Gas: In gases, atoms are **spread**; the atoms **move** freely, so they have an **unfixed** shape.
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How does water change at different temperatures?

Water is a liquid at room temperature, but it becomes a solid (called ice) if it's cooled down. The same water can turn into a gas (called water vapour) if it is heated up.

We have to know that these changes only happen when water reaches a particular temperature.

- Water turns to ice at 0° → Freezing point
- Water turns to vapour at 100° → Boiling point



*Boiling and freezing points come at different temperatures for different substances.

What happened to the ice at the skating rink?

The ice at the skating rink melted and turned into a liquid. Then, all the liquid became a gas and evaporated.

If you do not want to miss any game you just have to keep the temperature of the rink cold enough to keep the ice frozen.