



Matter and Change of State

A. Choose the Correct Answer:

1. What are the three states of matter?

- A) Solid, Liquid, Gas
- B) Water, Ice, Steam
- C) Air, Fire, Water
- D) Hard, Soft, Flowing

2. Which state of matter has a definite shape and volume?

- A) Liquid
- B) Gas
- C) Solid
- D) Plasma

3. What happens when water is heated to 100°C?

- A) It turns into ice
- B) It turns into steam
- C) It becomes heavier
- D) It disappears

B. Fill in the Blanks:

1. Matter is anything that has _____ and occupies space.
2. Ice melts to form _____, and water evaporates to form _____.
3. A gas does not have a fixed shape or _____.

C. Case Study:

Ravi and Meena conducted an experiment with water to understand changes in the states of matter. They took a tray of ice cubes and left it outside for an hour. After some time, they observed that the ice had melted into water. Then, they placed a pot of this water on the stove and heated it. Soon, they saw steam rising from the pot.

After completing the experiment, their teacher asked them a few questions about what they observed.

Case Study Questions:

1. What change did Ravi and Meena observe when ice was left outside?
2. What happened when they heated the water on the stove?
3. What is the process called when ice turns into water?



4. What is the process called when water turns into steam?

D. Short Answer Questions:

1. What is matter? Give an example.
2. How does heat affect the state of matter?
3. What is condensation? Give an example.

E. Long Answer Questions:

1. Describe the three states of matter with examples.
 2. Explain how water changes its state when heated and cooled.
 3. Discuss the importance of understanding changes in the states of matter in daily life.
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