



# State of Matter: Solid, Liquid, Gas

## Reading Passage and Questions Worksheet

### Answer Key

### Questions

#### States of Matter: Solid, Liquid, Gas

In the world around us, everything is made up of tiny particles called molecules. These molecules are always present in different ways to create three main states of matter: solid, liquid and gas. Each has some different characteristics and they change between them.

**Solid:** Imagine a brick or a box. Solids are made of many, many tiny molecules. These tiny molecules are packed very closely together. They are arranged in a regular pattern and they don't move around much.

**Liquid:** Now think about water. It flows and takes the shape of its container. In liquids, the molecules are not packed as closely together as in solids. They can move around a bit, but they still stay close to each other.

**Gas:** Think about air or steam. It fills all around you. Gas particles move very fast. They are not packed together like in solids or liquids. They can move in any direction and they are far apart from each other.

**Changing States:** Have you ever seen ice melting? Or water boiling? These are changes from one state of matter to another. When ice melts, it changes from a solid to a liquid. When water boils, it changes from a liquid to a gas. These changes happen because of heat. This change is called **transformation**.

Can you think of other changes? For example, when you freeze water, it changes from a liquid to a solid. When you boil water, it changes from a liquid to a gas. These changes happen because of heat. This change is called **transformation**.

Remember, all these changes happen because of heat. Heat makes molecules move faster and they change from one state to another. This process is called **transformation**.

Now, let's think about the changes between the states of matter. When you freeze water, it changes from a liquid to a solid. When you boil water, it changes from a liquid to a gas. These changes happen because of heat. This change is called **transformation**.

1. What particles change in gas into they water droplets?

- a) Evaporation
- b) Boiling
- c) Condensation
- d) Freezing

2. Which of the following is an example of a solid?

- a) Air
- b) Water
- c) Ice
- d) Steam

3. What happens to molecules when a substance freezes?

- a) They move faster and more closely together.
- b) They move faster and spread out.
- c) They move slower.
- d) They disappear.

4. Which state of matter has molecules that are tightly packed and don't move around much?

- a) Solid
- b) Liquid
- c) Gas
- d) Steam

5. What is the process of a liquid changing into a gas called?

- a) Boiling
- b) Condensation
- c) Evaporation
- d) Freezing

6. When a process of change is gas into tiny water droplets?

- a) Evaporation
- b) Boiling
- c) Condensation
- d) Freezing

7. Which of the following is an example of a solid?

- a) Air
- b) Water
- c) Ice
- d) Steam

8. What happens to molecules when a substance freezes?

- a) They move faster and more closely together.
- b) They move faster and spread out.
- c) They move slower.
- d) They disappear.

9. Which state of matter has molecules that are tightly packed and don't move around much?

- a) Solid
- b) Liquid
- c) Gas
- d) Steam

10. What is the process of a liquid changing into a gas called?

- a) Boiling
- b) Condensation
- c) Evaporation
- d) Freezing

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**Sir Norman Lockyer**



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