



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 together and don't move very far from each other.

Gas: Think about air or gas. Gases fill up all around you. Gas particles move very fast. They are not packed together like solids or liquids. They can move in all directions and they can move very far from each other.

Changing States: Have you ever seen ice melting? Or water boiling? Or steam rising from a kettle? These are examples of changes in the state of matter. These changes happen when we add or remove heat. For example, when we heat ice, it melts and becomes liquid. When we cool liquid, it freezes and becomes solid. These changes are called **phase changes**.

Think about how often you see a solid turning into a liquid. Or a liquid turning into a gas. Or a gas turning into a liquid. Or a liquid turning into a solid. These changes happen all the time. They are called **phase changes** because they involve a change in the state of matter.

When we change the temperature of a substance, we can change its state of matter. For example, if we heat a solid, it will melt and become a liquid. If we cool a liquid, it will freeze and become a solid. These changes are called **phase changes**.

Now, let's think about the changes in the state of matter. What happens when we heat a solid? It melts and becomes a liquid. What happens when we cool a liquid? It freezes and becomes a solid. These changes are called **phase changes**.

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. What 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 spread out and spread out.
- c) They spread out.
- 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

Questions On States Of Matter Pearson Education

Scott C. Dulebohn



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