



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 particles. These tiny particles are packed very closely together. They are held together by strong forces, 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. They don't move very far from each other.

Gas: Think of the air you breathe. It fills all around you, but you can't see it. Gases have molecules that are spread out far from each other. They fill up the space around them. There are no strong forces holding them together, and they move from one place to another all the time.

Changing States: Have you ever seen ice melting? Or water boiling? Or steam rising from a kettle? These are changes between the states of matter. When water melts, it changes from a solid to a liquid. When it boils, it changes from a liquid to a gas. These changes happen because of heat. If you add heat, things can change from one state to another. If you take heat away, they can change back.

Think about how often you see a solid melting. Or a liquid boiling. Or a gas condensing. These changes happen because of heat. If you add heat, things can change from one state to another. If you take heat away, they can change back.

When you change a solid into a liquid, it's called melting. When you change a liquid into a gas, it's called boiling. When you change a gas into a liquid, it's called condensing. When you change a liquid into a solid, it's called freezing. These changes happen because of heat.

So, when you see something change from one state to another, it's because of heat. If you add heat, things can change from one state to another. If you take heat away, they can change back.

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 closer and come closer together.
- b) They spread out and spread out.
- c) They move away.
- 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 closer and come closer together.
- b) They spread out and spread out.
- c) They move away.
- 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

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