

## Solids Liquids And Gases Worksheet Answer Key PDF

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### Part 1: Building a Foundation

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**Which of the following is a characteristic of solids?**

undefined. **A) They have a definite shape and volume. ✓**

undefined. B) They take the shape of their container.

undefined. C) They are highly compressible.

undefined. D) They expand to fill their container.

Solids have a definite shape and volume.

**Which of the following are true about gases? (Select all that apply)**

undefined. A) They have a definite shape.

undefined. **B) They are highly compressible. ✓**

undefined. **C) Particles move freely and rapidly. ✓**

undefined. D) They have a definite volume.

Gases are highly compressible and their particles move freely and rapidly.

**Describe the arrangement and movement of particles in a liquid.**

**Particles in a liquid are close together but can move past one another, allowing liquids to flow.**

**List two examples of each state of matter: solid, liquid, and gas.**

1. Solid examples:

**Ice, Rock**

2. Liquid examples:

**Water, Oil**

3. Gas examples:

### Oxygen, Carbon Dioxide

Examples include ice and rock for solids, water and oil for liquids, and oxygen and carbon dioxide for gases.

## Part 2: Comprehension and Application

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**What happens to the particles of a solid when it melts into a liquid?**

undefined. A) They become more tightly packed.

**undefined. B) They start to move past one another. ✓**

undefined. C) They stop moving.

undefined. D) They spread far apart.

The particles start to move past one another as the solid melts.

**Which of the following processes involve a change from liquid to gas? (Select all that apply)**

**undefined. A) Evaporation ✓**

undefined. B) Freezing

undefined. C) Condensation

**undefined. D) Boiling ✓**

Evaporation and boiling are processes that change a liquid to a gas.

**Describe a real-world situation where sublimation occurs and explain the process.**

**Sublimation occurs when substances like dry ice change from solid to gas without becoming liquid.**

**If you place a balloon in a freezer, what will likely happen to the gas inside?**

undefined. A) It will expand.

**undefined. B) It will contract. ✓**

undefined. C) It will turn into a liquid.

undefined. D) It will remain unchanged.

The gas inside the balloon will likely contract due to the lower temperature.

### Part 3: Analysis, Evaluation, and Creation

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**Which of the following best explains why gases are compressible while solids are not?**

undefined. A) Gases have more mass than solids.

**undefined. B) Gas particles are farther apart than solid particles. ✓**

undefined. C) Solid particles move faster than gas particles.

undefined. D) Solids have more energy than gases.

Gas particles are farther apart than solid particles, allowing gases to be compressed.

**Evaluate the following statements and select those that accurately describe the impact of temperature on states of matter. (Select all that apply)**

**undefined. A) Increasing temperature can cause solids to melt. ✓**

**undefined. B) Decreasing temperature can cause gases to condense. ✓**

undefined. C) Temperature has no effect on the state of matter.

**undefined. D) Increasing temperature can cause liquids to evaporate. ✓**

Increasing temperature can cause solids to melt, and decreasing temperature can cause gases to condense.

**Design an experiment to demonstrate the process of freezing and describe the expected observations.**

**An experiment could involve placing water in a freezer and observing it turn into ice.**