

## Solids Liquids And Gases Worksheet Questions and Answers PDF

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## Part 1: Building a Foundation

Which of the following is a characteristic of solids?
Hint: Think about the properties of solids compared to liquids and gases.
○ A) They have a definite shape and volume. ✓
B) They take the shape of their container.
C) They are highly compressible.
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)
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Hint: Consider the properties of gases in comparison to solids and liquids.
A) They have a definite shape.
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<ul><li>A) They have a definite shape.</li><li>B) They are highly compressible. ✓</li></ul>
<ul> <li>A) They have a definite shape.</li> <li>B) They are highly compressible. ✓</li> <li>C) Particles move freely and rapidly. ✓</li> </ul>

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

Hint: Think about how particles are positioned and how they interact in liquids.



Water, Oil
List two examples of each state of matter: solid, liquid, and gas.  Hint: Think of common substances that fit into each category.  1. Solid examples:    Ice, Rock  2. Liquid examples:    Water, Oil
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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

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

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Hint: Consider the changes in particle movement and arrangement.
A) They become more tightly packed.
○ B) They start to move past one another.
C) They stop moving.
O) 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)
Hint: Think about the processes that involve heating or cooling of liquids.
A) Evaporation ✓
B) Freezing
C) Condensation
□ 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.
Hint: Think about substances that change directly from solid to gas.
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?
Hint: Consider how temperature affects gas volume.
○ A) It will expand.
O B) It will contract. ✓
C) It will turn into a liquid.
O) It will remain unchanged.

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The gas inside the balloon will likely contract due to the lower temperature.
Part 3: Analysis, Evaluation, and Creation
Which of the following best explains why gases are compressible while solids are not?
Hint: Think about the arrangement of particles in solids and gases.
○ A) Gases have more mass than solids.
○ B) Gas particles are farther apart than solid particles. ✓
C) Solid particles move faster than gas particles.
O) 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)
Hint: Consider how temperature changes affect the state of matter.
☐ A) Increasing temperature can cause solids to melt.  ✓
□ B) Decreasing temperature can cause gases to condense. ✓
C) Temperature has no effect on the state of matter.
<ul><li>□ D) Increasing temperature can cause liquids to evaporate. ✓</li></ul>
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.
Hint: Think about how you would set up an experiment to observe freezing.

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