



# Properties of Matter

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: Particles in a solid move quickly and spread far apart from each other.

Rewrite: \_\_\_\_\_

2. Fix the sentence: A gas has a fixed shape and a fixed volume just like a solid does.

Rewrite: \_\_\_\_\_

3. Fix the sentence: When water evaporates, the water molecules are destroyed and disappear forever.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. A liquid has a fixed volume but takes the \_\_\_\_\_ of its container.
2. The change from a solid directly to a gas without becoming a liquid is called \_\_\_\_\_.
3. Adding thermal energy to a solid can cause it to \_\_\_\_\_ and become a liquid.
4. When a gas loses energy and changes to a liquid, the process is called \_\_\_\_\_.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. Compare how particles move in a liquid versus a gas.

\_\_\_\_\_  
\_\_\_\_\_

2. Why does a puddle of water disappear on a warm sunny day even though nobody heated it on a stove?

\_\_\_\_\_  
\_\_\_\_\_

### Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: Particles in a solid move quickly and spread far apart from each other.

Rewrite: **Particles in a solid vibrate in place and are packed closely together.**

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2. Fix the sentence: A gas has a fixed shape and a fixed volume just like a solid does.

Rewrite: **A gas has no fixed shape and no fixed volume because its particles spread out to fill any container.**

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3. Fix the sentence: When water evaporates, the water molecules are destroyed and disappear forever.

Rewrite: **When water evaporates, the water molecules change from liquid to gas but are not destroyed. They move into the air.**

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### Part B: Fill in the Blank

Write the missing word or number on each line.

1. A liquid has a fixed volume but takes the shape of its container.
2. The change from a solid directly to a gas without becoming a liquid is called sublimation.
3. Adding thermal energy to a solid can cause it to melt and become a liquid.
4. When a gas loses energy and changes to a liquid, the process is called condensation.

### Part C: Short Answer

Answer each question in one or two complete sentences.

1. Compare how particles move in a liquid versus a gas.

*In a liquid, particles slide past each other and stay close together but can change positions. In a gas, particles move very fast in all directions and spread far apart to fill the entire container.*

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2. Why does a puddle of water disappear on a warm sunny day even though nobody heated it on a stove?

*The sun provides thermal energy to the water molecules in the puddle. Some molecules at the surface gain enough energy to escape into the air as water vapor, which is the process of evaporation.*

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