Science Fables

The Matter Mystery

Story Quiz

This quiz follows Nia and Caleb as they discover what matter is and how solids, liquids, and gases behave.

1. What is matter?

A. Anything that gives off light
B. Anything that has mass and takes up space
C. Only things that can be seen
D. Only solids and liquids

2. Which property describes a solid?

A. It spreads out to fill all available space
B. It takes the shape of its container
C. It keeps its own shape
D. It has no mass

3. What happens when water is poured from a tall glass into a short cup?

A. It keeps the shape of the tall glass
B. It takes the shape of the short cup
C. It becomes a gas
D. It stops being matter

4. How does a gas behave?

A. It keeps a fixed shape
B. It stays only at the bottom of a container
C. It spreads out to fill the space around it
D. It cannot move

5. Which statement correctly describes a change of state?

A. Ice can melt into liquid water
B. Water stops being matter when it evaporates
C. Gas cannot change back into a liquid
D. A solid can never change form

Answer Key

1. B — Anything that has mass and takes up space

Matter is anything that has mass and takes up space.

2. C — It keeps its own shape

A solid keeps its own shape.

3. B — It takes the shape of the short cup

When water is poured into a short cup, it takes the shape of the short cup.

4. C — It spreads out to fill the space around it

A gas spreads out to fill the space around it.

5. A — Ice can melt into liquid water

Ice can melt into liquid water, which is a change of state.