

Matter in Motion

Read for clues about how each state of matter acts.

2.3.b “solids, liquids, and gases have different characteristics; and”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the words that tell how the solid, liquid, and gas act. Then write S, L, or G beside each paragraph to name its state of matter.

How Matter Acts

- ① A wooden block is a solid. It keeps its own shape when it sits on a table or moves to a bag. You can pick up the block. It does not flow or pour like a drink.
- ② Milk is a liquid. It flows when you tip a carton, and you can pour it into a cup. The milk changes shape to fit the cup, but it still has the same amount.
- ③ Air is a gas. It can spread out and fill a balloon, a room, or any container with space. Gas does not keep its own shape. You can squeeze gas into a smaller space.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 A marble keeps its shape when you move it from your hand to a cup. Is it most likely a solid, liquid, or gas? What clue tells you?

2 Juice is poured into a bowl and changes shape to fit the bowl. What state of matter is the juice?

3 Why can air fill a bicycle tire, but a wooden block cannot?

3 YOUR TURN _____ Your own words

Fill in the table with a different solid, liquid, and gas. Do not use wooden block, milk, or air. Write one way each one acts.

OBJECT	STATE OF MATTER	HOW IT ACTS

PART 1 • READ AND MARK

Underline the words that tell how the solid, liquid, and gas act. Then write S, L, or G beside each paragraph to name its state of matter. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	A marble keeps its shape when you move it from your hand to a cup. Is it most likely a solid, liquid, or gas? What clue tells you?	It is a solid. Solids keep their own shape.
2	Juice is poured into a bowl and changes shape to fit the bowl. What state of matter is the juice?	The juice is a liquid.
3	Why can air fill a bicycle tire, but a wooden block cannot?	Air is a gas that spreads out and fills spaces. A wooden block is a solid that keeps its own shape.

PART 3 • YOUR TURN (SAMPLE ANSWER)

OBJECT	STATE OF MATTER	HOW IT ACTS
rock	solid	keeps its shape
honey	liquid	flows and takes the shape of its container
helium	gas	spreads out to fill a balloon

Accept any accurate examples that are not the three named in the passage. Each row should name the correct state and a matching characteristic, such as keeping shape, flowing and taking container shape, or spreading to fill space.