



Name _____
Date _____

Worksheet 4
Grade 5

Physical and Chemical Changes

1. Write whether each step in the recipe is a chemical change or a physical change. (3 points)

Susannah is making pizza with her grandpa. Read the steps of the recipe.

Grandpa's Famous Pizza

1. Mix the flour, water, sugar, and yeast. Place the mixture in a covered bowl until bubbles form and the dough rises.
2. Remove the dough from the bowl and roll the dough flat.
3. Bake the dough until it becomes a dark-colored crust.
4. Spread tomato sauce over the top of the crust.
5. Slice peppers, onions, and pineapple. Arrange these items on the crust.
6. Grate some cheese.
7. Sprinkle the cheese on top of the pizza.
8. Bake the pizza until the cheese melts and turns a little brown.

let dough rise _____

roll dough _____

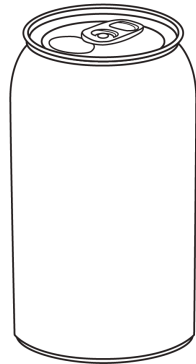
bake dough _____

slice vegetables _____

grate cheese _____

bake pizza _____

2. Eman placed a canned liquid drink in a freezer. She removed the can 12 hours later. The pictures show the can before and after Emma put it in the freezer.



Before the freezer



After the freezer

Which best explains what Eman observed? (1 point)

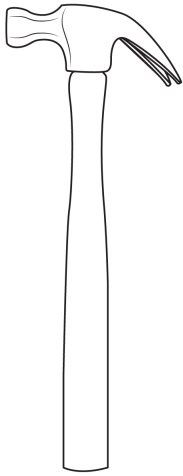
- a. The liquid in the can changed and is now a different substance.
- b. The liquid in the can froze and expanded when it became a solid.
- c. The liquid in the can melted, causing it to flow out of the container.
- d. The liquid in the can evaporated, causing some of the liquid to be lost.

3. Lamar builds a robot out of blocks. She measures the mass of the robot on a scale. Lamar accidentally drops the robot, and the robot breaks into pieces.

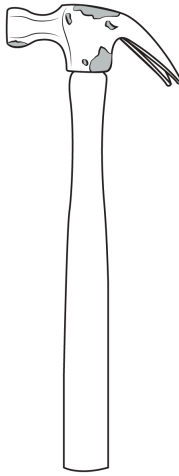
What can Lamar expect to find when she measures the mass of the broken pieces?

The mass of the broken robot (**increases / stays the same / cannot be measured / decreases**). (1 point)

4. The picture shows two hammers. The first picture shows a new hammer. The second picture shows the same hammer after it was left outside all spring.



New



After

The picture of the hammer labeled "After" shows evidence of **(evaporation / melting / rust / freezing)**, which is a **(chemical / physical)** change. (1 point)