

Matter – Study Questions

1. What are the three states of matter?

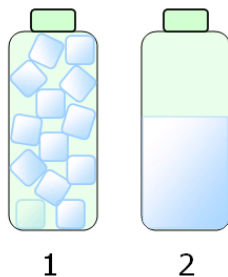
- ☐ A. evaporation, condensation, freezing
 - ☐ B. melting, condensing, evaporating
 - ☐ C. ice, water, water vapor
 - ☐ D. solid, liquid, gas
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2. Nikki went outside in the morning. It had not rained or snowed, but the grass was wet.

The water on the grass that Nikki saw is called _____.

- ☐ A. dew
 - ☐ B. hail
 - ☐ C. snow
 - ☐ D. rain
-

3.



Bottle 1 and bottle 2 both have water in them. You can tell that the water in bottle 1 is in the solid form because it

- ☐ A. is warmer than 32° C
 - ☐ B. expands to fill the whole container.
 - ☐ C. takes on the shape of the container.
 - ☐ D. has shapes of its own that can be measured.
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4. Kiesha wants to make ice pops out of juice. She pours juice into ice trays and places them in the freezer. What happens to make the ice pops?

- ☐ A. The juice turns from liquid to gas.
 - ☐ B. The juice turns from solid to liquid.
 - ☐ C. The juice turns from solid to gas.
 - ☐ D. The juice turns from liquid to solid.
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5. Matter in the _____ form expands to fill the container it is in.

- ☐ A. solid
 - ☐ B. gas
 - ☐ C. powder
 - ☐ D. liquid
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6. Sarah has a cup of water. She wants to know at what temperature the water will freeze. She places the cup of water outside on a winter day and puts a thermometer next to the cup. As the temperature goes down, Sarah looks to see when the water has frozen.

At what temperature will the water freeze?

- ☐ A. -100 °C
 - ☐ B. -23 °C
 - ☐ C. 100 °C
 - ☐ D. 0 °C
-

7. Dana fills up an ice cube tray with water. She fills each cube only half-way with water, then places the tray in the freezer. Later, Dana returns to the freezer and finds that the water has become ice cubes. However, the ice cubes fill up each cube in the tray.

Why does each ice cube fill more of the cube on the tray than the water?

- ☐ A. Someone added more water to the ice cube tray.
 - ☐ B. Ice has a greater density than water.
 - ☐ C. When water is frozen, it takes up less space.
 - ☐ D. When water freezes and becomes ice, it expands.
-

8. What is the metric unit gram (g) used to measure?

- ☐ A. mass
- ☐ B. length
- ☐ C. time
- ☐ D. volume

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9. If an object is not in a container, but you can measure the length, width, and depth of the object with a ruler, then what **state** of matter is it in?

- ☐ A. solid
 - ☐ B. gas
 - ☐ C. liquid
 - ☐ D. magnetic
-

10. What happens when you take an ice cream cone outside on a hot day?



- ☐ A. It all evaporates into the air.
 - ☐ B. The ice cream freezes very fast.
 - ☐ C. The ice cream starts to melt very fast.
 - ☐ D. Nothing happens to it.
-

11. Judy poured herself a glass of ice water. After five minutes, Judy noticed water on the outside of the glass.

What caused this water to form on the glass?

- ☐ A. water from inside the glass evaporating
 - ☐ B. water from inside the glass seeping through the glass
 - ☐ C. ice on the outside of the glass melting
 - ☐ D. water vapor from the air condensing on the cold glass
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12. What is the definition of volume?

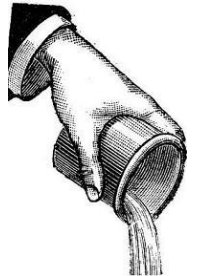
- ☐ A. the measure of the amount of matter in something
 - ☐ B. the measure of the temperature of an object
 - ☐ C. the measure of the height of an object
 - ☐ D. the measure of the amount of space an object takes up
-

13. Lacey has a pot of water on the stove. It has just begun to boil.

The water is most likely at a temperature of _____.

- ☐ A. 500 °C
 - ☐ B. 100 °C
 - ☐ C. 0 °C
 - ☐ D. 2000 °C
-

14. Mikey is pouring out a glass of water. How does the water move out of the glass?



- ☐ A. It flows.
 - ☐ B. It does not move.
 - ☐ C. It goes up.
 - ☐ D. It bounces.
-

15. A piece of ice is shown in the picture below.



Ice is water in its _____ state.

- ☐ A. liquid
- ☐ B. solid
- ☐ C. gas
- ☐ D. natural

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16. Which of the following is true about condensation?

☐ A. When a gas changes to a liquid, this is called vaporization.

☐ B. A gas must lose heat to change to a liquid.

☐ C. Heat must be added to change a gas to a liquid.

☐ D. When a gas changes to a liquid, this is called melting.

17. In the winter, a sheet of ice covers a lake. In the summer, the ice goes away.

What happened to the ice in the summer?

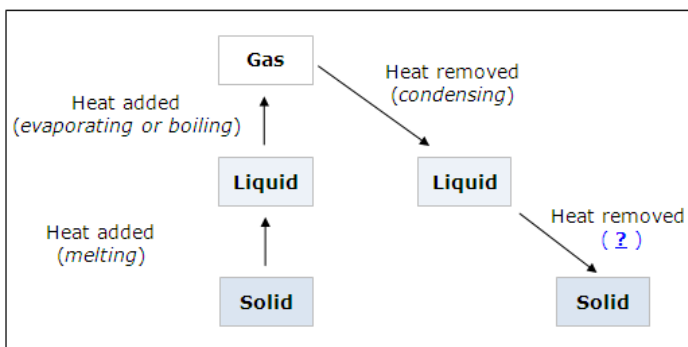
☐ A. It sank.

☐ B. It froze.

☐ C. Fish ate it.

☐ D. It melted.

18. The picture shows how adding heat or taking heat away causes matter to change state.



What is it called when a solid is formed by removing heat from a liquid?

☐ A. freezing

☐ B. condensation

☐ C. evaporation

☐ D. melting

19. Ed was hot and thirsty, so he made himself a glass of iced tea. After he drank the tea, he left the glass containing the ice on the counter and went outside. An hour later, he returned and found that the ice had melted.

Which of the following describes what happened to the ice?

☐ A. The ice changed from solid to liquid.

☐ B. The ice changed from solid to gas.

☐ C. The ice changed from liquid to gas.

☐ D. The ice changed from gas to solid.

20. Which of the following forms can water be found in?

☐ A. liquid

☐ B. solid

☐ C. gas

☐ D. all of the above

21. Which of these will take the shape of their container?

☐ A. liquids and gases only

☐ B. liquids only

☐ C. solids, liquids, and gases

☐ D. solids and gases only