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Chapter 1 Test

Read each question and circle the best answer.

1. Which is a true statement about liquids?

A. A liquid never changes its shape.
B. A liquid's particles are tightly packed.
C. A liquid's particles flow past one another.
D. None of the other answer choices

2. Which state of matter has a shape of its own?

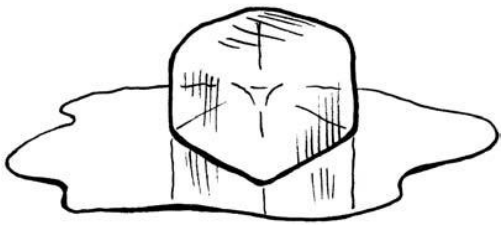
A. Solid
B. Liquid
C. Gas
D. All of the other answer choices

3. What happens to water particles as water is heated?

A. The space between them becomes greater.
B. The space between them becomes less.
C. The space between them stays the same.
D. The space between them stays the same, but they slide past one another.

4. Study the picture of the ice cube. What is causing the change in the ice cube?

A. The ice is getting warmer and boiling.
B. The ice is getting warmer and melting.
C. The ice is getting colder and freezing.
D. The ice is getting colder and condensing.



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5. The particles of a gas

A. move freely.

B. have a lot of space between them.

C. bounce off one another as they move.

D. All of the other answer choices

6. How do you know your pencil is a solid?

A. It has mass and volume.

B. It is made up of particles.

C. It doesn't change shape.

D. None of the other answer choices

7. You are at the beach. You are surrounded by water in all three states of matter. Which of the following is an example of a liquid?

A. The ocean

B. The ice in your drink

C. The humidity (water vapor) in the air

D. None of the other answer choices

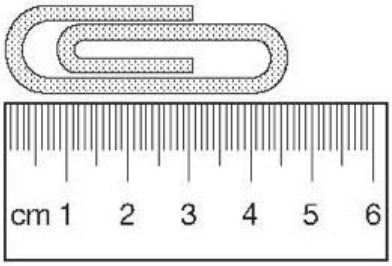
8. Look at the paper clip and metric ruler. What is the length of the paper clip?

A. 4 centimeters

B. 4.5 centimeters

C. 4 millimeters

D. 4.5 millimeters



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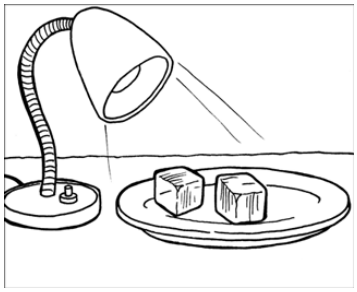
9. The drawing shows two ice cubes that Jacob has placed under the heat of a lamp. As heat from the lamp warms the ice cubes, what will be the first change that Jacob will observe in the state of the ice cubes?



A. They will begin to change from a solid to a gas.

B. They will begin to change from a liquid to a gas.

C. They will begin to change from a liquid to a solid.

D. They will begin to change from a solid to a liquid.

10. Which states of matter take the shape of their container?

A. A solid and a liquid

B. A liquid and a gas

C. A solid and a gas

D. A solid, a liquid, and a gas

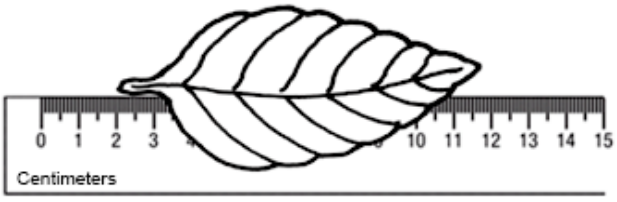
11. Felipe wants to measure how long a leaf is. He places the leaf in the middle of the ruler. About how long is the leaf in centimeters?

A. 9

B. 9.5

C. 11

D. 11.5



12. Which measurement tells how much matter is in an object?

A. Mass

B. Weight

C. Volume

D. Height

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13. Choose the words that belong in the sentence.
As an object _____, the particles move _____.

A. cools, slower

B. warms, slower

C. cools, in a straighter line

D. warms, in a straighter line

14. Which could cause the mass of an object to change?

A. Placing the object on the moon

B. Measuring in metric units

C. Breaking the object into parts and rearranging the pieces

D. Subtracting matter from the object

15. The water on the outside of a cool glass of water on a warm day is called

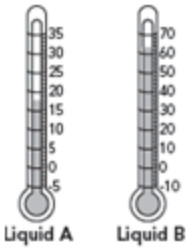
A. condensation.

B. evaporation.

C. magnetism.

D. a mixture.

16. The thermometers how the temperatures of two liquids. What can you tell about the liquids?



A. The liquids have the same temperature.

B. Liquid A has a higher temperature than Liquid B.

C. Liquid B has a higher temperature than Liquid A.

D. The temperature of each liquid could not be measured.

17. Which tool would you use to measure volume?

A. Graduated cylinder

B. Thermometer

C. Meterstick

D. Balance

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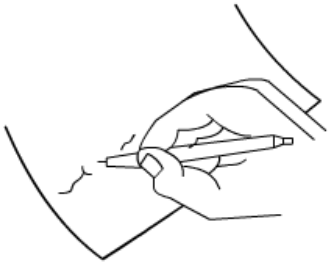
18. What can you feel after you rub an eraser against a paper?



A. Heat

B. Light

C. Potential Energy

D. Electricity

19. Which of the following does **not** produce heat energy?

A. Camp fire

B. Rubbing hands together

C. Lit light bulb

D. Cooking pot

20. Jeff heated a pot of water. He poured an equal amount into four different cups. After 20 minutes, he measured the temperature of the water in each cup. Which cup is the best insulator?

Cup	Temperature °C
1	40
2	32
3	51
4	44

A. Cup 1

B. Cup 2

C. Cup 3

D. Cup 4

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