Chapter 1 Matter PRACTICE TEST

1. Water changing from a gas to a liquid is called _____.

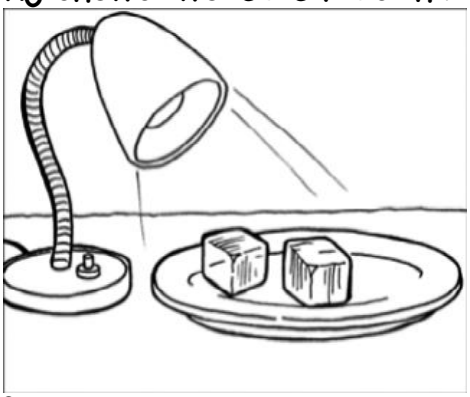
2. Ice melting into water is a change between which two states of matter?
_____ to _____.

3. Study the picture of the ice cube.

What is causing the change in the ice cube?
The ice is getting _____ and _____.

4. In which state of matter are particles packed tightly together to form a definite shape? _____

5. 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?
They will begin to change from a _____ to a _____.

6. Which states of matter take the shape of their container?
_____ and _____.

7. What happens to frozen water when it is heated? _____

8. What happens when the temperature of water changes from 90°C (Celsius) to 100°C? The water changes from a _____ to a _____.

9. What happens to water when it reaches 100 degrees Celsius?
_____.

10. Which state of matter has a shape of its own? _____.

11. Describe the particles of a gas:
    - They move _____.
    - They _____ off one another as they move.
    - There is _____ of space between the particles.

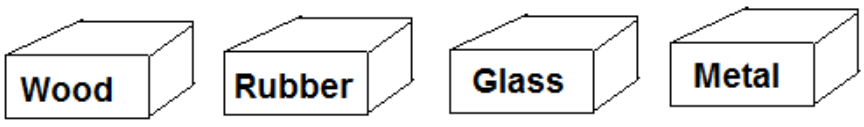
12. How do you know your pencil is a solid?
_____.

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

14. What happens to the space of water particles as water is heated?
_____.

15. When the pot of water is heated on the stove to a high enough temperature, the water begins to boil. What process causes the water vapor to rise out of the pot of liquid water cooking on the stove? _____.

16. Chen tests the properties of four small blocks. The blocks are the same size but are made from different materials. Chen discovers that one block has a property that is different from all the others. What property is Chen most likely testing to get these results? (Magnetism, texture, or volume) _____.



17. What is matter?

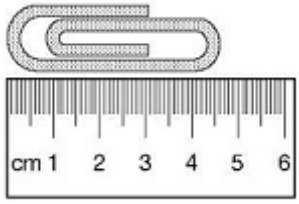
_____.

18. What property would a baseball and a globe always have in common?

_____.

19. You walk into a flower garden with your eyes closed. You don't touch anything. What property of the flowers would you be most likely to detect? _____

20. Look at the paper clip and metric ruler.

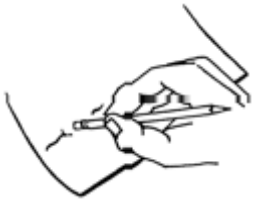


What is the length of the paper clip? _____.

21. The metric unit of centimeters (cm) is used to measure which two physical properties of matter? _____ and _____.

22. What are you measuring when you use tools to find an object's mass? (What is mass?) _____.

23. Look at the picture.



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

24. How is energy initially being transferred by the campfire?

_____ to <u>Thermal energy</u>

25. How is heat transferred during conduction?
When two objects _____, heat flows from the _____ object to the _____ object.

26. A cold drink left in the sun gets warm. How is thermal energy transferred in this example?

27. Tyler holds a warm muffin in his hand. By what process does the heat travel from the muffin to the hand? _____.