Study Guide

Matter & Properties /Physical & Chemical Changes

**Fill in the blank with the correct answer.**

1. \_\_\_\_\_\_\_\_\_\_\_\_ is a measure of how much matter is in something.
2. \_\_\_\_\_\_\_\_\_\_\_ is anything that has mass and takes up space.
3. \_\_\_\_\_\_\_\_\_\_\_\_ is the amount of space something takes up.
4. A \_\_\_\_\_\_\_\_\_\_\_\_\_is used to measure mass.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the best unit of measurement for mass.
6. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an instrument used to measure the volume of a liquid.
7. How do you find the volume of an irregularly shaped object?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are characteristics of a substance that can be observed or measured without changing the substance into something else.
9. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when one or more substances change into a new substance.
10. A burning log is an example of what type of change occurring?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Melting ice is an example of what type of change occurring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. Cutting a piece of paper is an example of what type of change occurring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. A piece of iron that has rusted is an example of what type of change occurring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. Slicing a loaf of bread is an example of what type of change occurring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. The steam that occurs from water boiling is an example of what type of change occurring? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process by which a liquid changes into gas.
17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the process by which a gas changes back into a liquid.
18. The three states that most matter occur in are \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_.
19. Changes in state are caused by changes in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. The particles in a \_\_\_\_\_\_\_\_\_\_\_\_\_ are close together and do not move much.
21. The particles in a \_\_\_\_\_\_\_\_\_\_\_\_\_ are spread far apart and move fast.
22. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a state of matter that has a definite shape and a definite volume.
23. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a state of matter that has a definite volume but not a definite shape.
24. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a state of matter that does not have a definite shape or volume.
25. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of substances is its ability to be dissolved.

 **Write soluble or not soluble for each of the following substances.**

1. Salt \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 29. Pepper \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Sugar \_\_\_\_\_\_\_\_\_\_\_\_ 30. Sand \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cooking Oil \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 31. Baking Soda \_\_\_\_\_\_\_\_\_\_\_\_\_

**Write the name for the following measurement instruments and write which physical property would be measured by the instrument.**





 32. 33.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Fill in the blanks with the correct measurement.**

34. What is the measure of the liquid in the instrument below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mL

 