

Name _____
Date _____ Per. _____

Physical Properties and Changes – Book Work

1. A characteristic of matter that can be observed or measured without changing the identity of the matter is a
 - a. matter property.
 - b. physical property.
 - c. chemical property.
 - d. volume property.
2. Some examples of physical properties are
 - a. color, odor, and age.
 - b. color, odor, and speed.
 - c. color, odor, and magnetism.
 - d. color, odor, and anger.

Match the correct example with the correct physical property. Write the letter in the space provided.

- | | |
|------------------------------------------------------------|-------------------------|
| ___ 3. Aluminum can be flattened into sheets of foil. | a. state |
| ___ 4. An ice cube floats in a glass of water. | b. solubility |
| ___ 5. Copper can be pulled into thin wires. | c. thermal conductivity |
| ___ 6. Plastic foam protects you from hot liquid. | d. malleability |
| ___ 7. Flavored drink mix dissolves in water. | e. odor |
| ___ 8. An onion gives off a very distinctive smell. | f. ductility |
| ___ 9. A golf ball has more mass than a table tennis ball. | g. density |
10. Density is the _____ that describes the relationship between mass and volume.
 11. Objects such as a cotton ball and a small tomato can occupy similar volumes but vary greatly in _____.
 12. If you pour different liquids into a graduated cylinder, the liquids will form layers based upon differences in the _____ of each liquid.
 13. Which layer of liquid would settle on the bottom of a graduated cylinder?

14. A change that affects only the physical properties of substance is known as a(n)
_____.

15. What kind of changes are melting and freezing?

Identify which of the following activities represent physical changes by writing a PC in the space provided if they cause only physical changes. Put and X beside any that do not.

___ 16. sanding a piece of wood

___ 17. baking bread

___ 18. crushing an aluminum can

___ 19. melting an ice cube

___ 20. dissolving sugar in water

___ 21. molding a piece of silver

22. When a substance undergoes a physical change, its _____ does not change.