

Name _____ Class _____ Date _____

Skills Worksheet

Directed Reading A

CLASSIFYING ELEMENTS BY THEIR PROPERTIES

17. What are some common properties that most territories share?

Section: Elements

1. Which of the following is NOT a physical or chemical change?
- a. crushing
 - b. weighing
 - c. melting
 - d. passing electric current

ELEMENTS, THE SIMPLEST SUBSTANCES

2. A pure substance that cannot be separated into simpler substances by physical or chemical means is a(n) _____.
3. A substance that contains only one type of particle is a(n) _____.

PROPERTIES OF ELEMENTS

4. The amount of an element present does not affect the element's _____.
5. Why does a helium-filled balloon float up when it is released?

Look at each property listed below. If it is a characteristic property of elements, write CP on the line. If it is not a characteristic property, write N.

- _____ 6. size _____ 12. color
- _____ 7. melting point _____ 13. hardness
- _____ 8. density _____ 14. flammability
- _____ 9. shape _____ 15. weight
- _____ 10. mass _____ 16. reactivity with acid
- _____ 11. volume

18. All elements can be classified as metals, metalloids, or _____.

19. An element that is shiny and that conducts heat and electric current well is a(n) _____.

20. An element that conducts heat and electric current poorly, and can be a solid, liquid, or gas is a(n) _____.

21. Elements that have properties of both metals and nonmetals are _____.

Indicate whether the description applies to a metal, a nonmetal, or a metalloid. Write the correct letter in the space provided.

- _____ 22. malleable a. metalloids
- _____ 23. dull or shiny b. nonmetals
- _____ 24. poor conductors c. metals

_____ 25. tend to be brittle and unforgeable as solids

_____ 26. always shiny

_____ 27. also called semiconductors

_____ 28. always dull

_____ 29. somewhat ductile

_____ 30. boron, silicon, antimony

_____ 31. lead, tin, copper

_____ 32. sulfur, iodine, neon