

**Chapter 1 Test Review**

Name \_\_\_\_\_ Per \_\_\_\_\_

1. Identify, sketch, and describe the use of the displayed lab equipment:
2. Define chemistry:
3. Define organic chemistry:
4. Define analytical chemistry:
5. Define basic research:
6. Is melting ice a chemical or physical change? Explain your answer.
7. Define intensive physical property:
8. Define extensive physical property:
9. Is melting wax a chemical or physical change? Explain your answer.
10. Define physical change:
11. Define physical property:
12. Define chemical change:
13. Define chemical property:
14. Be able to describe how the particles act as solids, liquids, and gases. Which state of matter is a material is most likely to resist compression?
15. Which is a pure substance: water or bread dough? Can you explain why?
16. Is a solution of salt water homogeneous or heterogeneous? Can you explain why?
17. On the PT, elements in the same \_\_\_\_\_ have similar properties.
18. Metals are located on the left/right side of the stair-step of the periodic table?
19. A vertical column of elements in the periodic table is called a \_\_\_\_\_.
20. The elements that border or touch the stair-step line in the periodic table are called \_\_\_\_\_.
21. Which of the following is a chemical property?
  - A. It is red.
  - B. It corrodes when in extended contact with air.
  - C. Its density is  $1.00 \text{ g/cm}^3$
  - D. It melts at  $0^\circ\text{C}$
22. Which of the following is a compound?
  - A. Fluorine
  - B. Sprite
  - C. Kool aid
  - D. Potassium iodide
23. Is sugar dissolved in water heterogeneous or homogeneous?
24. Is sand stirred into water heterogeneous or homogeneous?
25. Is orange juice with pulp heterogeneous or homogeneous?
26. What type of mixture is a chocolate chip cookie: heterogeneous or homogeneous?
27. What is the correct element symbol for potassium?
28. What is the correct element symbol for sulfur?
29. What is the correct element symbol for sodium?
30. Define element.
31. Define compound.
32. Define mixture.
33. Is rusting a chemical or physical change?
34. Extensive property or intensive property: volume
35. Extensive property or intensive property: color
36. Extensive property or intensive property: length
37. Extensive property or intensive property: mass
38. Extensive property or intensive property: density