Chapter 9 - Comparing Kinds of Matter

Study Guide

1. What metric units would be used to measure mass?

2. What state of matter are most elements in nature?

3. What are the two most common elements in the UNIVERSE?

4. List and describe the parts of an atom.

5. Describe how particles are arranged in the three states of matter.

6. What is surface tension?

7. What happens to metals when exposed to nonmetals in the environment?

8. Which property measures the space taken up by an object?

9. Define each of these properties of metals

ductility

malleability

luster

10. What is the name for types of elements that are likely to combine with other elements and make new substances?

11. What is an element?

12. What is an atom?

13. What is the difference between mass and weight?

14. How do scientists determine the atomic number of an atom? The atomic mass?

15. What is buoyancy? What factors determine if an object is buoyant or not?

16. What is surface tension?

17. What is a semiconductor?

18. What is density?

19. What is a molecule?

20. Where would you find the MOST reactive elements on the periodic table?

Where would you find the LEAST reactive elements on the periodic table? What are these called?

21. How are the elements in a ROW of the periodic table related?

How are the elements in a COLUMN of the periodic table related?

22. List the 7 metalloids.

23. Describe properties of metals, nonmetals, and metalloids.

24. How could two objects be the same size and shape but have different densities?

25. How could graphite be used in a dimmer switch for your lights?

26. The chemical formula for water is H20. What does this mean?