

# ELEMENTS, COMPOUNDS AND MIXTURES

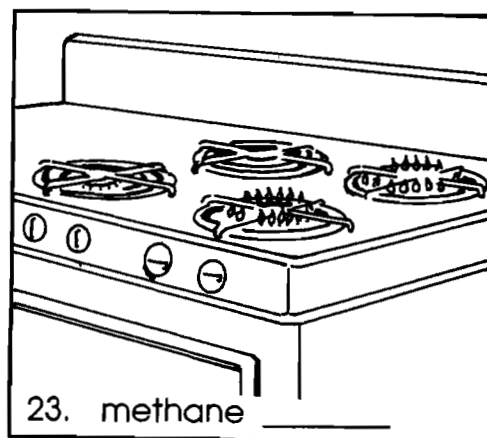
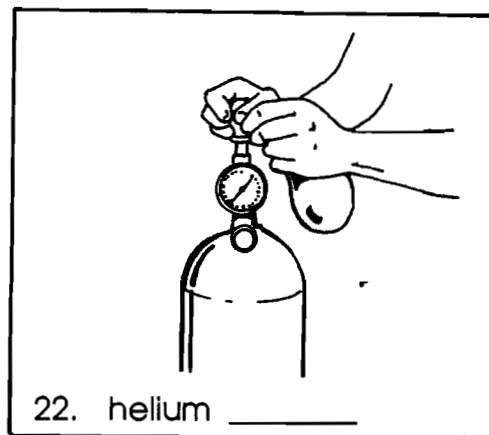
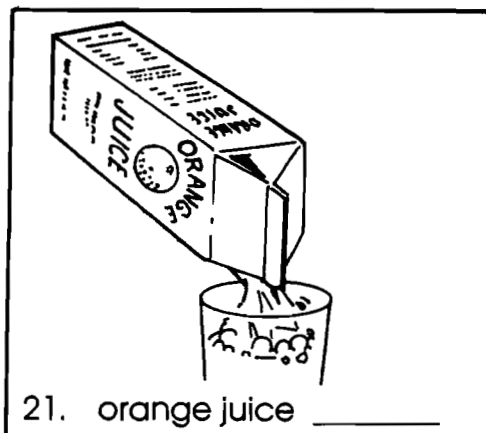
Name \_\_\_\_\_

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An element consists of only one kind of atom. A compound consists of two or more different elements chemically combined in a fixed ratio. The components of a mixture can be in any proportion and are not chemically bound.

Classify each of the following as an element, compound or mixture by writing E, C or M in the space provided.

1. sodium \_\_\_\_\_
2. water \_\_\_\_\_
3. soil \_\_\_\_\_
4. coffee \_\_\_\_\_
5. oxygen \_\_\_\_\_
6. alcohol \_\_\_\_\_
7. carbon dioxide \_\_\_\_\_
8. cake batter \_\_\_\_\_
9. air \_\_\_\_\_
10. soap \_\_\_\_\_
11. iron \_\_\_\_\_
12. salt water \_\_\_\_\_
13. ice cream \_\_\_\_\_
14. nitrogen \_\_\_\_\_
15. eggs \_\_\_\_\_
16. blood \_\_\_\_\_
17. table salt \_\_\_\_\_
18. nail polish \_\_\_\_\_
19. milk \_\_\_\_\_
20. cola \_\_\_\_\_



# PARTS OF THE ATOM

Name \_\_\_\_\_

Using the Periodic Table of the Elements, determine the number of protons, neutrons and electrons in each of the following atoms. Draw a model of the atom showing the electrons in the proper energy levels.

1.  ${}^1_1\text{H}$     \_\_\_\_\_ protons  
                  \_\_\_\_\_ neutrons  
                  \_\_\_\_\_ electrons

2.  ${}^{12}_6\text{C}$     \_\_\_\_\_ protons  
                  \_\_\_\_\_ neutrons  
                  \_\_\_\_\_ electrons

3.  ${}^{23}_{11}\text{Na}$     \_\_\_\_\_ protons  
                  \_\_\_\_\_ neutrons  
                  \_\_\_\_\_ electrons

4.  ${}^{31}_{15}\text{P}$     \_\_\_\_\_ protons  
                  \_\_\_\_\_ neutrons  
                  \_\_\_\_\_ electrons

5.  ${}^{16}_8\text{O}$     \_\_\_\_\_ protons  
                  \_\_\_\_\_ neutrons  
                  \_\_\_\_\_ electrons