

ELEMENTS, COMPOUNDS AND MIXTURES

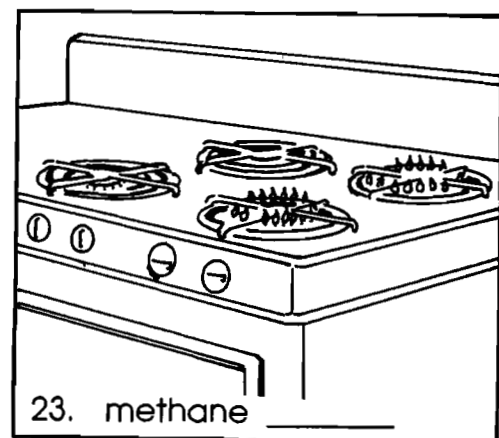
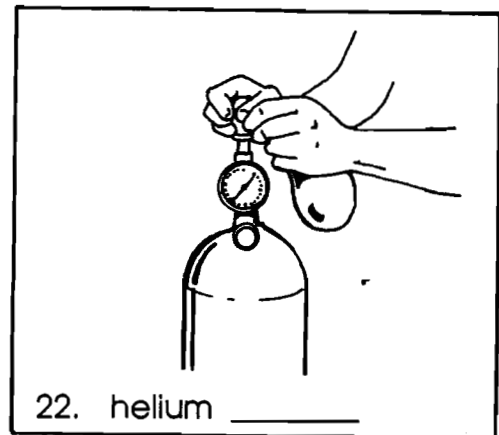
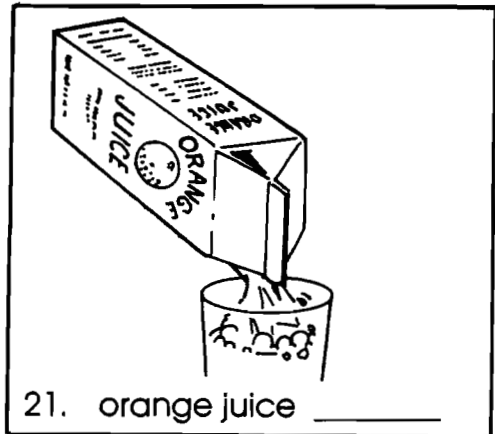
Name _____

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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