

## ELEMENTS, COMPOUNDS, AND MIXTURES

Label each substance in the list below as an element (E), a compound (C), or a mixture (M).

- |   |   |   |
|---|---|---|
| <u>C</u> 1. carbon dioxide (CO <sub>2</sub> ) | <u>C</u> 9. baking soda (NaHCO <sub>3</sub> ) | <u>M</u> 18. iron filings and sulfur    |
| <u>E</u> 2. chlorine                          | <u>M</u> 10. vegetable soup                   | <u>E</u> 19. nitrogen                   |
| <u>M</u> 3. air                               | <u>E</u> 11. lead                             | <u>E</u> 20. carbon                     |
| <u>C</u> 4. water                             | <u>E</u> 12. gold                             | <u>E</u> 21. oxygen                     |
| <u>E</u> 5. hydrogen                          | <u>M</u> 13. cup of tea                       | <u>M</u> 22. sugar water                |
| <u>C</u> 6. rust (iron oxide)                 | <u>E</u> 14. zinc                             | <u>E</u> 23. iron                       |
| <u>M</u> 7. salt dissolved in water           | <u>M</u> 15. sand and sugar                   | <u>E</u> 24. aluminum                   |
| <u>E</u> 8. copper                            | <u>E</u> 16. sulfur                           | <u>C</u> 25. ammonia (NH <sub>3</sub> ) |
|   | <u>E</u> 17. silver                           |   |

## DATA ON DENSITY

A student performed an experiment to find the densities of some metal objects. Some information in the student's data table are missing. Complete the data table. Use the list of densities from the computer screen to find the answers.

Metal	Mass (g)	Volume (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )
Copper	44.5	5.0	8.9
IRON	15.8	2.0	7.9
ALUMINUM	8.1	3.0	2.7
LEAD	22.6	2.0	11.3
Silver	36.75	3.5	10.5
GOLD	38.6	2.0	19.3
Tin	21.9	3.0	7.3

