

Worksheet: Elements, Compounds, & Mixtures

(Frameworks Code)

Element – a substance that cannot be broken down into other substances by chemical or physical means (p. 19).

Ex: gold, oxygen, and copper. For a complete list of the elements refer to your periodic table (pp. 84-85).

Compound – a substance made of two or more elements chemically combined (p. 20).

Ex: calcium carbonate, magnesium chloride, and hydrogen peroxide. Compounds often have the names of two or more elements as part of their names.

Mixture – two or more substances mixed together but not chemically combined (p. 20).

Ex: breakfast cereal, chocolate milk, and a dinner salad.

Classify each of the following substances. Use the following abbreviations:

E for element

C for compound

M for mixture

- | | |
|---------------------------------|-------------------------------------------|
| ____ 1. Hydrogen | ____ 16. Helium |
| ____ 2. Water (hydrogen oxide) | ____ 17. Sulfuric acid (hydrogen sulfate) |
| ____ 3. Lead | ____ 18. Copper |
| ____ 4. Magnesium oxide | ____ 19. Granite |
| ____ 5. Dirt (soil) | ____ 20. Zinc |
| ____ 6. Concrete | ____ 21. Salt solution |
| ____ 7. Oxygen | ____ 22. Nitrogen |
| ____ 8. Copper sulfate | ____ 23. Chocolate chip cookies |
| ____ 9. Air | ____ 24. Sulfur |
| ____ 10. Zinc oxide | ____ 25. Sugar |
| ____ 11. Iron | ____ 26. Toothpaste |
| ____ 12. Salt (sodium chloride) | ____ 27. Silver |
| ____ 13. Sugar water | ____ 28. Butter |
| ____ 14. Magnesium | ____ 29. Ethyl alcohol |
| ____ 15. Milk | ____ 30. Paint |