

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 elementC for compoundM for mixtureE 1. HydrogenC 2. Water (hydrogen oxide)E ③ LeadC 4. Magnesium oxideM 5. Dirt (soil)M 6. ConcreteE 7. OxygenC ⑧ Copper sulfateM 9. AirC 10. Zinc oxideE 11. IronC 12. Salt (sodium chloride)M 13. Sugar waterE 14. MagnesiumM 15. MilkE 16. HeliumC 17. Sulfuric acid (hydrogen sulfate)E 18. CopperM 19. GraniteE 20. ZincM 21. Salt solutionE 22. NitrogenM 23. Chocolate chip cookiesE 24. SulfurC 25. SugarM 26. ToothpasteE 27. SilverM 28. ButterC 29. Ethyl alcoholM 30. Paint