



Worksheet: Elements, Compounds, and Mixtures

****Instructions:** Determine whether each of the following substances is an element, compound, or mixture. Write your answer next to each substance.

- **1.**** Water (H₂O)
- **2.**** Oxygen (O₂)
- **3.**** Carbon dioxide (CO₂)
- **4.**** Table salt (NaCl)
- **5.**** Iron (Fe)
- **6.**** Air
- **7.**** Sugar (C₁₂H₂₂O₁₁)
- **8.**** Gold (Au)
- **9.**** Brass
- **10.**** Lemonade
- **11.**** Hydrochloric acid (HCl)
- **12.**** Soil
- **13.**** Helium (He)
- **14.**** Carbon (C)
- **15.**** Milk

Remember:

- An ****element**** is a pure substance composed of atoms with the same atomic number.
- A ****compound**** is a substance formed by the chemical combination of two or more elements in a fixed ratio.
- A ****mixture**** is a combination of two or more substances that are not chemically combined and can be separated by physical means.

****Answers:****

1. Compound
2. Element
3. Compound
4. Compound
5. Element
6. Mixture
7. Compound
8. Element
9. Mixture
10. Mixture
11. Compound
12. Mixture
13. Element
14. Element
15. Mixture



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Remember that compounds are formed through chemical reactions, while mixtures are physical combinations. Elements are substances that cannot be broken down into simpler substances by chemical means. Double-check your answers to ensure accuracy!