

Elements, Compounds & Mixtures Worksheet

Part 1: Read the following information on the classification of matter. Fill in the blanks where necessary.

Elements:

- ① An element is a pure substance made of only one type of _____.
- ① An element _____ be separated into simpler substances.
- ① Over 100 existing elements are listed in the _____.

Compounds:

- ① Compounds are pure substances made up of particles called _____.
- ① Compounds _____ be separated into elements by chemical change.
- ① The properties of a compound are usually _____ than the properties of the elements it contains.

Mixtures:

- ① Mixtures are a made up of two or more types of _____ and _____ be separated by physical changes.
- ① In a homogeneous mixture, one substance is _____ in another. A heterogeneous mixture does not _____ uniform. You can tell that there is more than one substance in it.

Part 2: Classify each of the following as pure substances (P) or mixtures (M). If it is a mixture, identify whether it is a solution (S) or a heterogeneous mixture (H). Write the letter X if the example is not matter.

___ Diamond (C)

___ Sugar (C₆H₁₂O₆)

___ Milk

___ Air

___ Sulfuric Acid (H₂SO₄)

___ Gasoline

___ Krypton (K)

___ Bismuth (Bi)

___ Uranium (U)

___ Water (H₂O)

___ Alcohol (CH₃OH)

___ Pail of Garbage

___ Ammonia (NH₃)

___ Salt (NaCl)

___ Energy

___ Wood

___ Bronze

___ Ink

___ Dry Ice (CO₂)

___ Baking Soda (NaHCO₃)

___ Titanium (Ti)

___ Iron (Fe)

___ Popcorn

___ Gold (Au)

___ Electricity

___ A dog

___ Concrete

