**Classifying Matter:  
Elements, Compounds, and Mixtures**

**Pure Substances**

* A sample of matter that has definite ­\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ properties.

**Atoms**

* Atoms are the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_unit of an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* All \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are made up of tiny atoms
* There are 3 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** particles in an atom
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is a dense area at the center of the atom
  + **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** are found in the atomic nucleus
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**have a positive charge
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** have no charge (neutral)
* Electrons have a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** compared to protons and neutrons
* Electrons are found **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_** from the nucleus in an area called the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Electrons have a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** charge

**Elements**

* pure substance that \_\_\_\_\_\_\_\_\_\_\_\_\_\_ be separated into simpler substance by \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ means.

**Compounds**

* Pure \_\_\_\_\_\_\_\_\_\_\_\_\_\_ composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or more \_\_\_\_\_\_\_\_\_\_\_\_\_\_ *elements joined by* \_\_\_\_\_\_\_\_\_\_\_\_\_\_*bonds.*
  + Made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the same
  + Has a chemical \_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Can only be separated by \_\_\_\_\_\_\_\_\_\_\_\_\_\_ means, not \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mixtures**

* A combination of two or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ substances that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ chemically combined.
* substances held together by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*, not chemical*
* No \_\_\_\_\_\_\_\_\_\_\_\_\_\_ change takes place
* Each item \_\_\_\_\_\_\_\_\_\_\_\_\_\_ its \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the mixture
* They \_\_\_\_\_\_\_\_\_\_\_\_\_\_ be separated \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* They are classified as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**What Is a Homogeneous Mixture?**

* A homogeneous mixture is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distributed
* Homogeneous mixtures are commonly called \_\_\_\_\_\_\_\_\_\_\_

**What Is a Heterogeneous Mixture?**

* A heterogeneous \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a mixture that is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distributed.
* Examples:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Chex Mix

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**Atoms**

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  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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