

Building Blocks of Matter

Element - a unique and pure substance in its simplest form; each element has its own unique properties (Sulfur-solid; yellow; rotten egg odor)

➤ Each **LEGO** block represents one atom. Each color is a different atom or different element.

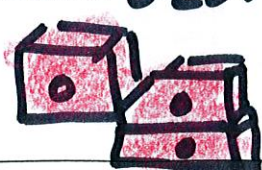












1. Remove the LEGOS from the bag.
2. Sort the LEGOS by color. Each color is a different element. Each block is a different atom.
3. Using squares to represent the LEGOS, draw and color the atoms for each of the 3 elements.

Compounds - a compound has to have **2 or more different elements chemically bonded together**. In order for compounds to form, a chemical reaction must occur and energy is needed.

1. Using the elements, create at least 3 different **compounds**.
2. Draw and color the **compounds** you created.

Mixtures - mixtures are not chemically bonded, they are just physically mixed together; substances can be separated; ingredients can always be separated out.

1. Create a **mixture** containing **two different elements**. Draw and color the **element mixture**.
2. Create one **mixture** containing **3 different compounds**. Draw and color the **compounds mixture**.
3. Create one **mixture** containing **elements and compounds**. Draw and color the **element and compound mixture**.

Element 1	ozone (O_3)  (harmful)
Element 2	1 atom of chlorine (Cl) 
Element 3	1 atom of Calcium (Ca) 
Compound 1	Calcium ($CaCO_3$) Carbonate 
Compound 2	Hydrogen Peroxide H_2O_2 
Compound 3	oxygen (Rust) Fe_2O_3 (Iron Oxide) 
Mixture of at least 2 different elements	 Cl S
Mixture of 3 different compounds	Hydrochloric Acid  Salt +  Carbon monoxide 
Mixture of elements and compounds	 H_2O  S  Fe

Name _____

Date _____ Period _____