

# Classifying Matter

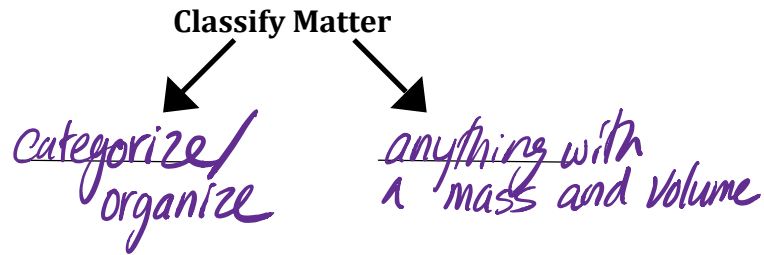
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What does it mean to...



## Elements

- When all the particles are alike, the substance is called a pure substance
- It is the Same throughout
- Elements are symbols found on the periodic table.
- Ex: *Hydrogen, Iron, Uranium*

## Compounds

- When all the particles are alike, the substance is called a pure substance
- It is the Same throughout
- Made up of more than one element. You have to know its chemical structure.
- Ex: *CO<sub>2</sub>, H<sub>2</sub>O, H<sub>2</sub>O<sub>2</sub>*

## Mixtures

- Matter that consists of different substances mixed together but not chemically combined.
- Ex: *Salad, sand, person*
- A mixture is a combination of substances.

Types of mixtures:

- different* ↗
1. **Heterogeneous**: A mixture that does not appear to be the same throughout  
 Ex: *Sushi, cereal with milk*
  2. **Homogeneous**: A mixture that does appear the same throughout  
 Ex: *Smoothie  
Coffee  
mixing paint*
- Same* ↖

Properties of Elements, Compounds and Mixtures		
Elements	Compounds	Mixtures
one atom	more than one atom	more than one compound
pure substance	pure substance	impure substance
Same throughout	Same throughout	heterogeneous: - different throughout homogeneous: - same throughout
ex/ oxygen (O)	ex/ H <sub>2</sub> O (water)	ex/ computer

