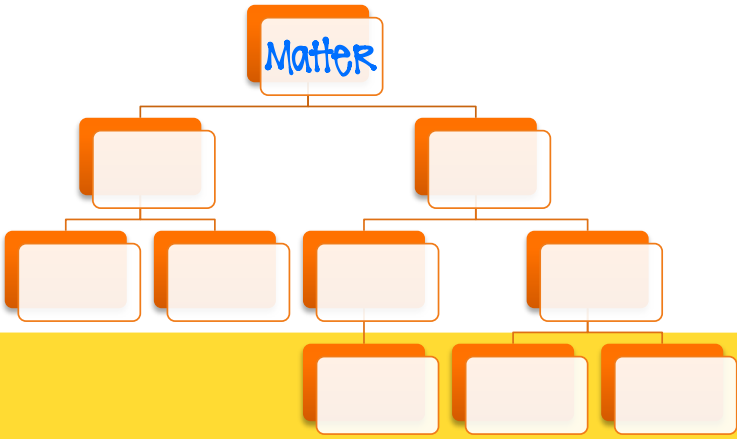
TYPES OF MATTER

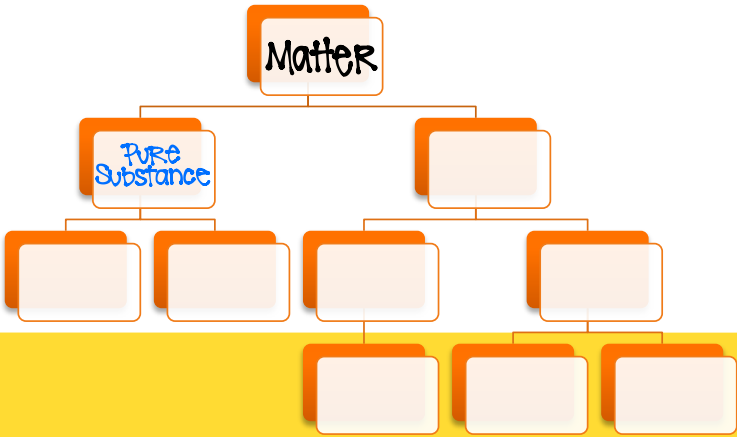
TYPES OF MATTER

Matter: Anything that has mass & takes up space



TYPES OF MATTER

Pure Substance: Matter that only has one set of physical & chemical properties

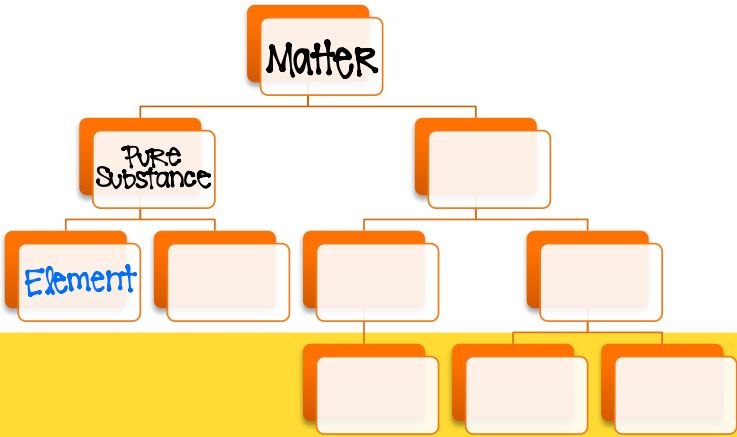


TYPES OF MATTER

Element: Matter that is composed of only one kind of atom

- Has only one capital letter in the formula

Examples:
Hydrogen → H_2
Oxygen → O_2
Nickel → Ni



TYPES OF MATTER

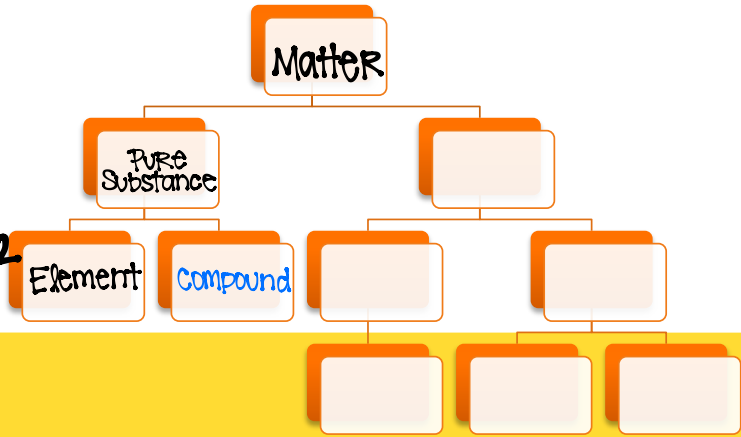
Compound: Matter that is composed of 2 or more types of atoms

- Has 2 or more capital letters in the formula

Examples:

Carbon dioxide ~ CO_2

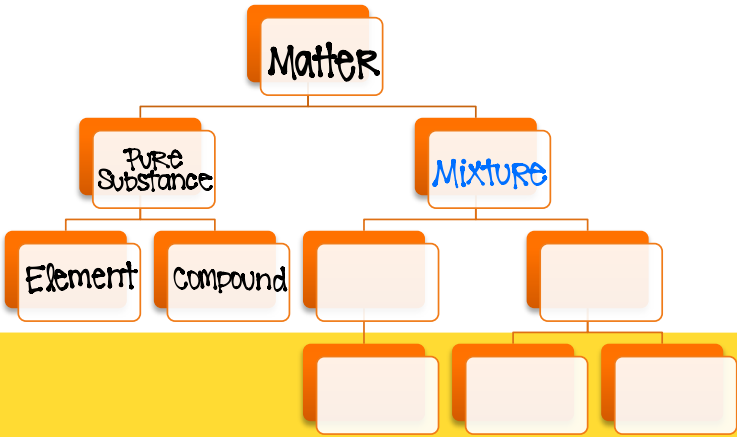
Copper II Chloride ~ $CuCl_2$



TYPES OF MATTER

Mixture: Matter that is composed of 2 or more pure substances that are physically combined together

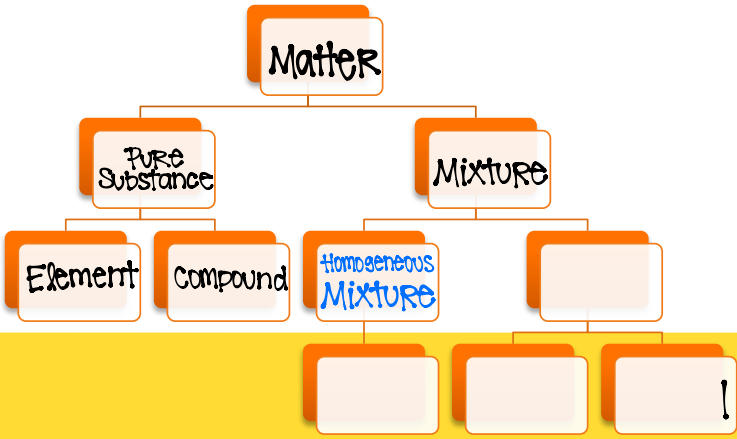
Has 2 or more sets of physical & chemical properties



TYPES OF MATTER

Homogeneous Mixture: Uniform in composition

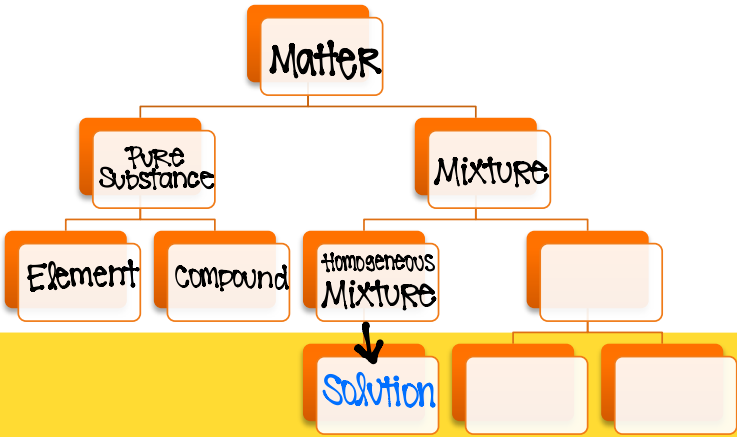
same



TYPES OF MATTER

Solution: A special name for a homogeneous mixture

Examples:
Air
Gasoline
Salt water



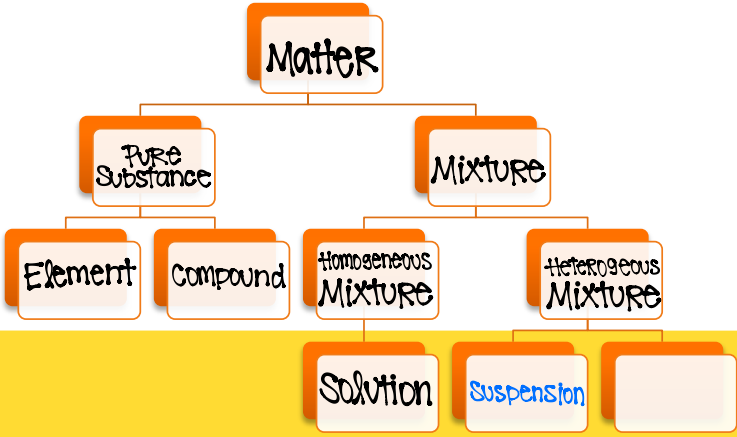
TYPES OF MATTER

Heterogeneous Mixture: NOT uniform in composition
different

TYPES OF MATTER

Suspension: A heterogeneous mixture with large particles that settle out

Examples:
Oil & Water
Muddy Water
Soil

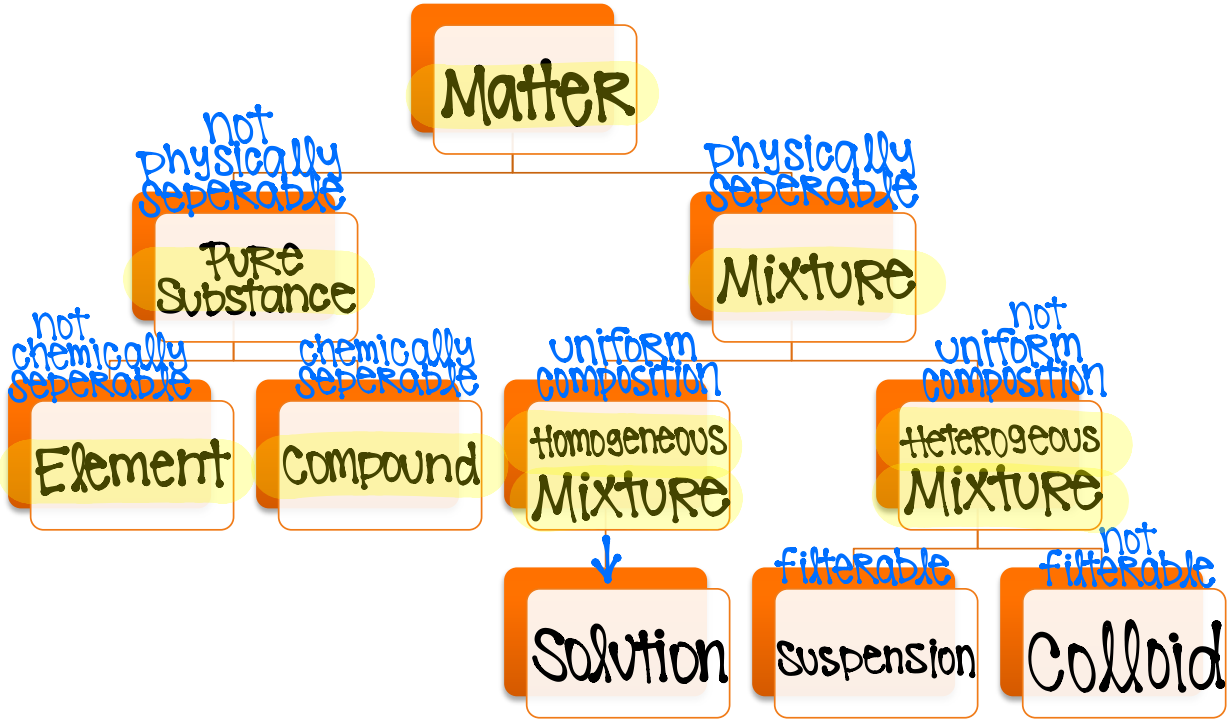


TYPES OF MATTER

Colloid: A heterogeneous mixture with small particles

Examples:
- Milk
- Fog
- Blood

TYPES OF MATTER



Most Pure ⟷ Most Impure

TYPES OF MATTER

States of Matter

- Solid (s) Definite shape & volume
- Liquid (l) Definite volume, takes shape of container
- Gas (g) Takes shape & volume of container
- Aqueous (aq) ~ dissolved in water
- (Plasma) very rare on earth