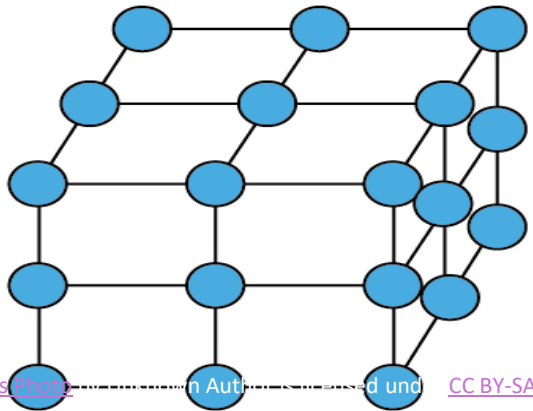
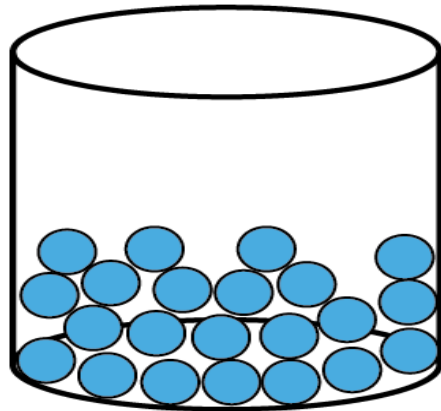


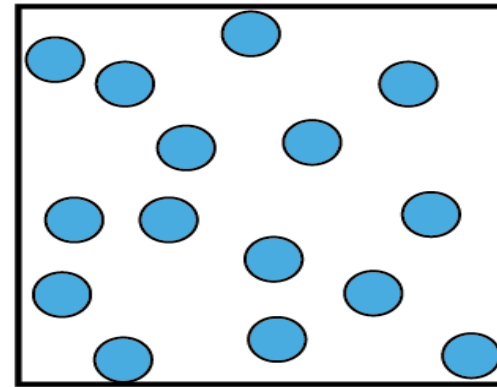
Classifying Matter



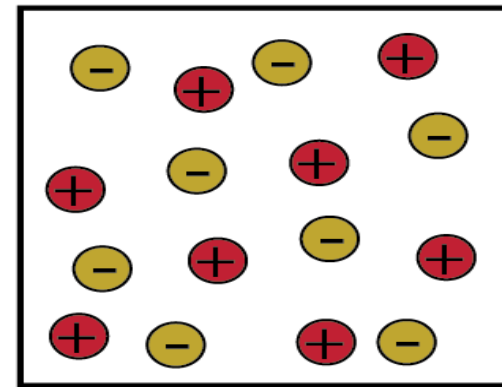
Solid



Liquid



Gas



Plasma

THERE ARE TWO WAYS TO GROUP MATTER

Physical State Composition

- Is it a **solid**
- Is it a **liquid**
- Is it a **gas**

- Is it an **element**
- Is it a **compound**
- Is it a **mixture**

WHAT IS AN ELEMENT?

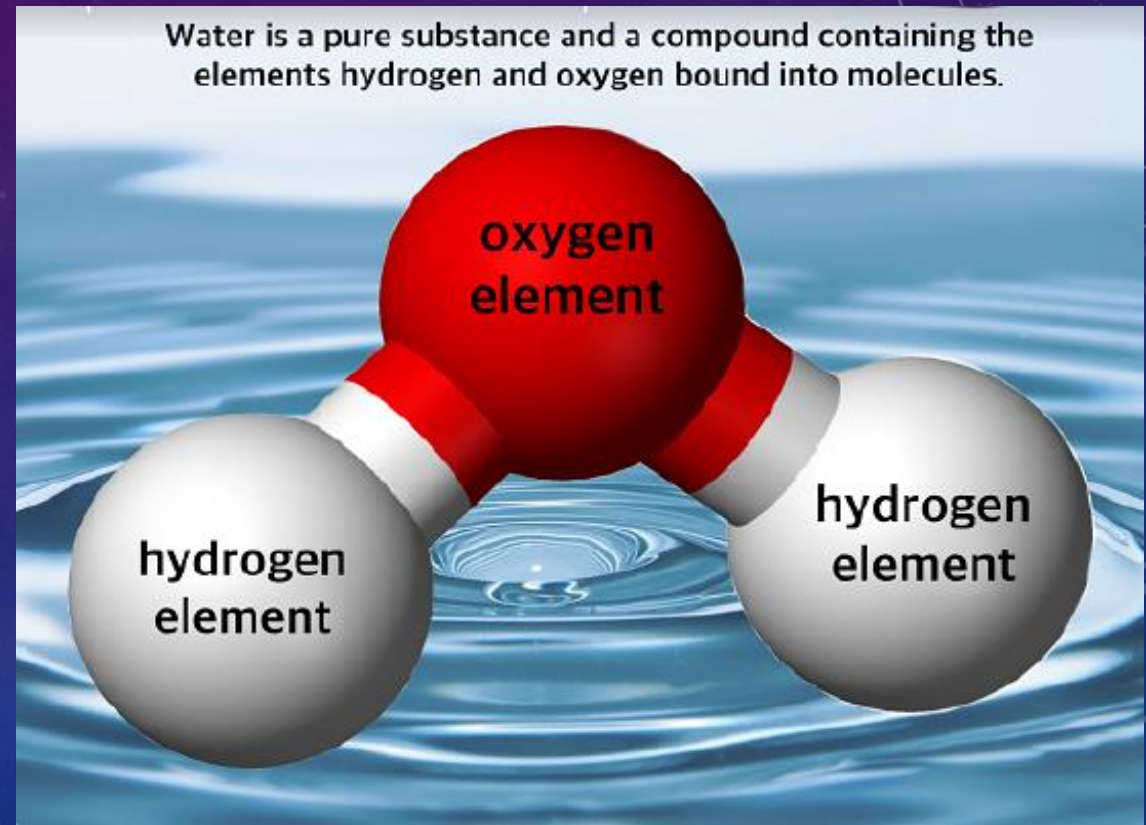
- Contains only **1** type of atom
- **CANNOT** be broken down by *physical* or *chemical* means
- Can *exist* as either **atoms** or **molecules**



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WHAT IS A COMPOUND?

- Contain atoms of **2** or more **DIFFERENT** elements **BONDED** together in a specific ratio
- Can be **BROKEN** down into simpler substance by **CHEMICAL** means not physical
- Has *different properties* and its component elements.



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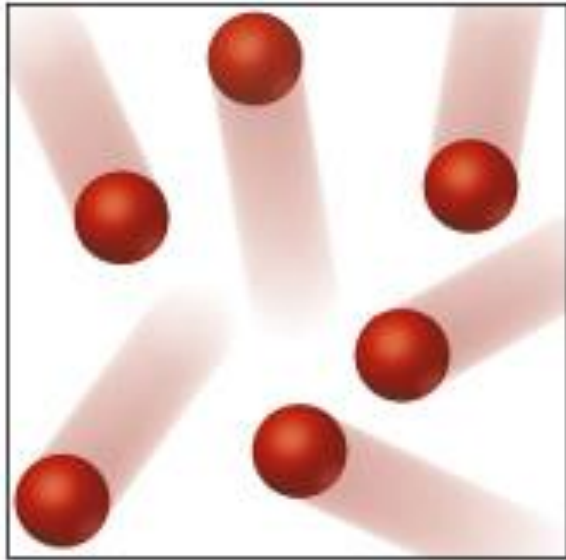
MIXTURES

- Contains 2 or more *substance* that are **not bonded together**
- Can be **separated physically**
- Retains many of the same properties of its components

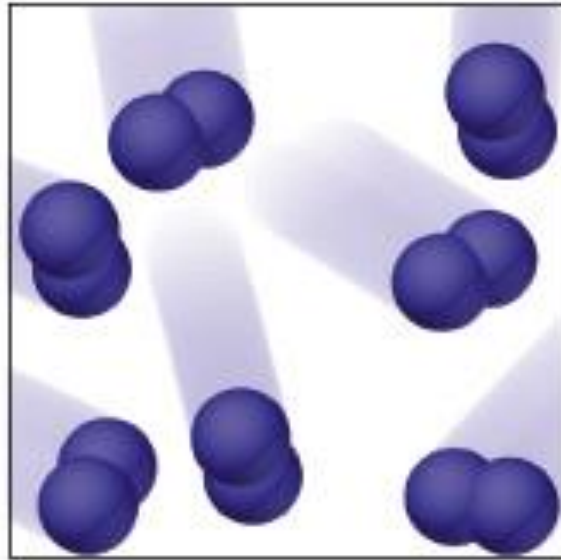


HERE ARE DRAWINGS OF ELEMENTS, COMPOUNDS, AND MIXTURES

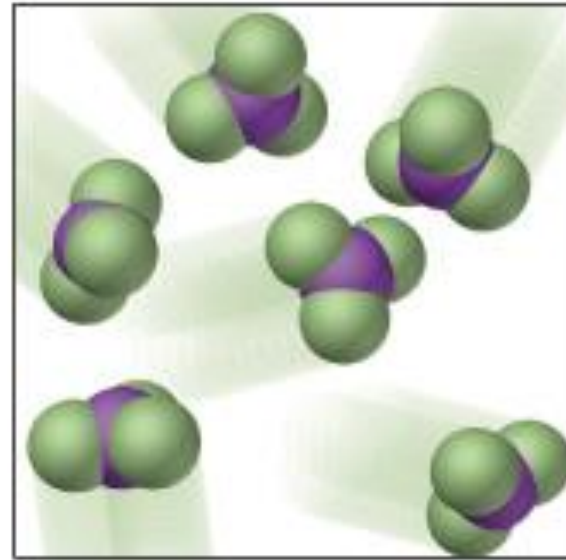
BE SURE TO LOOK AT THE **CHANGES** IN EACH PICTURE- ATOM – ELEMENT- COMPOUND -MIXTURE



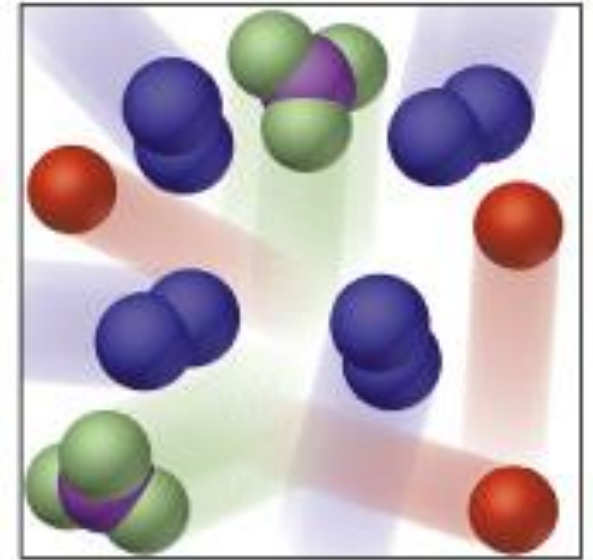
(a) Atoms of an element



(b) Molecules of an element



(c) Molecules of a compound



(d) Mixture of elements and a compound