

Atoms, molecules, OH MY!

Atoms = the smallest unit of matter

Ex: an atom of oxygen

Element = a pure substance made up of only 1 type of atom (has to be on the periodic table)

Ex: gold, iron, calcium, oxygen

molecules = two or more atoms bonded together (held together by chemical bonds)

Ex: O_2 , H_2O , N_2 , $C_6H_{12}O_6$

Compound = a pure substance made up of 2 or more DIFFERENT types of atoms, formed in a specific mass ratio and are chemically bonded

Ex: water = H_2O

Salt = $NaCl$

Sugar = $C_6H_{12}O_6$

Starch = $C_6H_{10}O_5$

When a compound is formed the substance has new properties!!

* All compounds are molecules, not all molecules are compounds *