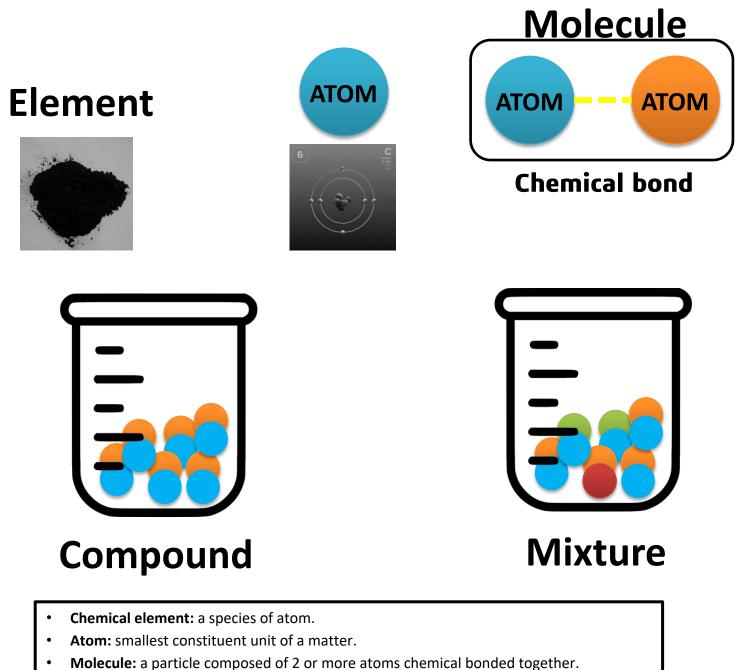
Chemistry



- Molecule: a particle composed of 2 of mole atoms chemical bolided togethe
- **Compound:** a chemical substance composed of many identical molecules.
- Mixture: composed of 2 or more substance

Atom: contains a nucleus made of **neutrons** and **protons**. This nucleus is surrounded by shells subdivided to orbitals filled with electrons.

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(1) Atomic weights of the elements 2013, Pure Appl. Chem., 88, 265-291 (2016) ACTINIUM THORIUM PROTACTINIUM URANIUM NEPTUNIUM PLUTONIUM AMERICIUM CURIUM BERKELIUM CALIFORNIUM EINSTEINIUM FERMIUM MENDELEVUM NOBELIUM LAWRENC					89 (227)		-										5.35		103 (262)

Atomic number: No. of protons or electrons in atom

Filling Electrons								
1 st shell	2 nd shell	3 rd shell						
Contains 1 orbital S [2 e]	Contains 2 types of orbitals S P [8 e]	Contains 2 types of orbitals S P [8 e]						
1S ²	2S ² , 2P ⁶	3S ² , 3P ⁶						