

Introduction to Bonding



Bond: (def.) A **bond** is the combining of atoms from various elements to form a new substance

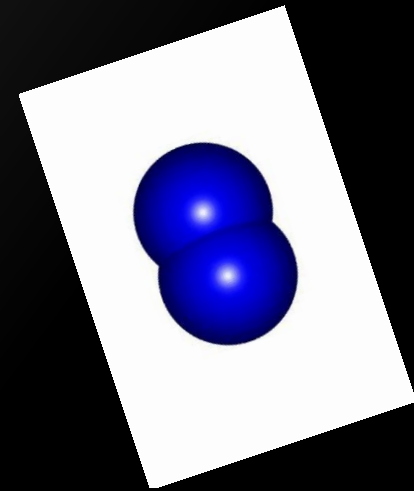
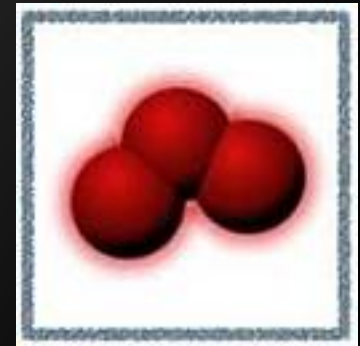
6.2- TSW EXPLAIN THAT COMPOUNDS FORM WHEN TWO OR MORE DIFFERENT KINDS OF ATOMS BOND.



Chronicle / Deanne Curice



Molecules vs. Compounds



When atoms bond together, they combine to form a molecule or a compound

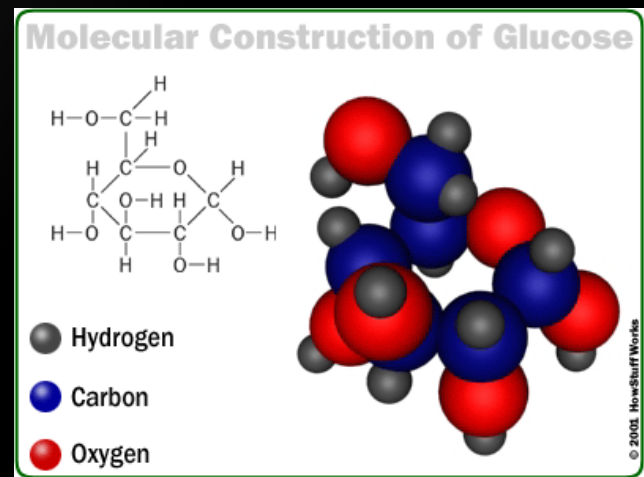
6.4- TSW COMPARE AND CONTRAST MOLECULES AND COMPOUNDS.

Molecule – a combination of 2 or more atoms that are bonded together

- Ex: H_2 , O_2 , O_3 , N_2

Compound – a molecule that contains at least 2 different elements

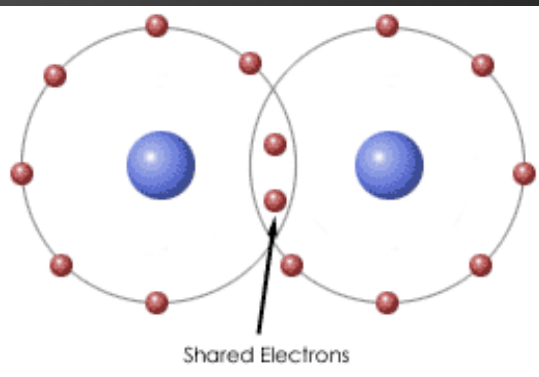
- Ex: H_2O , $C_6H_{12}O_6$, CH_4



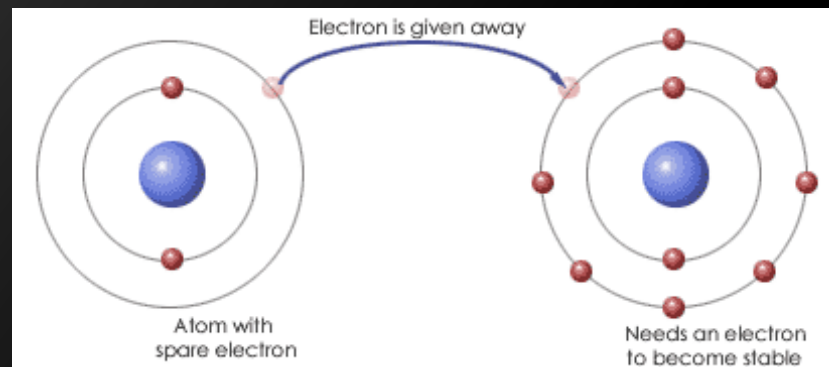
A chemical bond...

- Is the strongest bond that can hold atoms together
- Is determined by the atomic structure of each atom
- Occurs in the valence electron shell
- Three types of chemical bonds:

Covalent



Ionic



Metallic



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