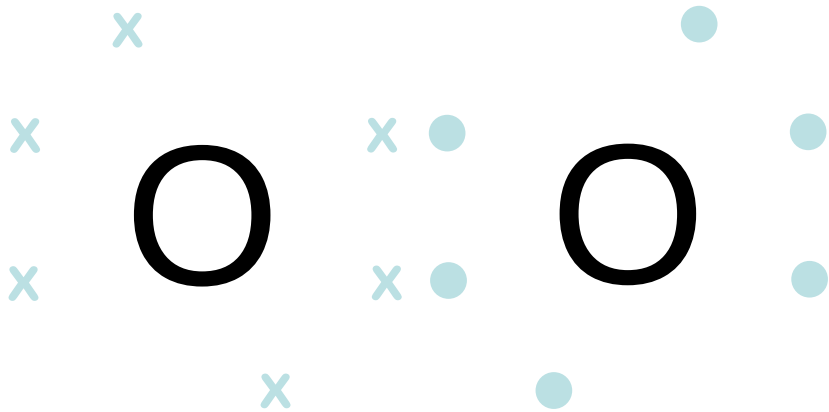
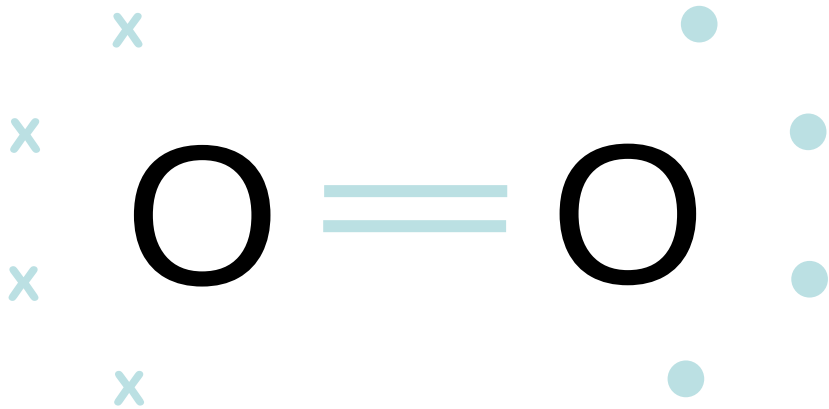
Double Covalent Bond



Double Covalent Bond



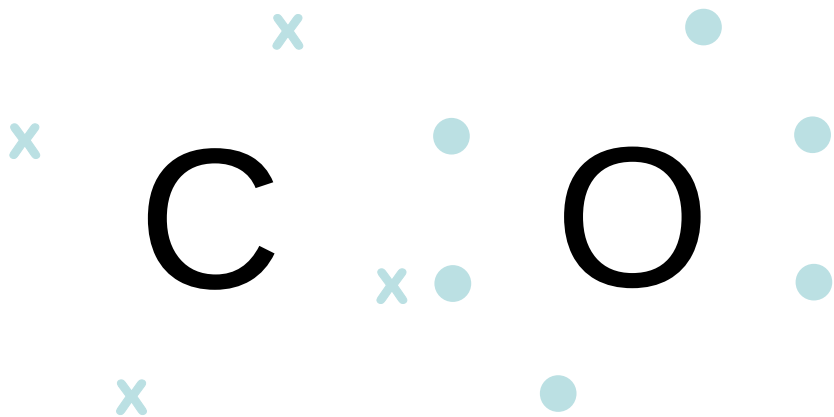
Triple Covalent Bond

Diatomic Molecules

H_2	Single bond
N_2	Triple
O_2	Double
F_2	Single
Cl_2	Single
Br_2	Single
I_2	Single

Carbon Monoxide

CO



O≡C

Naming Molecules

- Leftmost element in periodic table goes first
- Other element gets “ide” treatment
- The number of atoms is stuck on the front of each in Greek

1 mon(o)	**2 di**
3 tri	**4 tetr(a)**
5 pent(a)	**6 hex(a)**
7 hept(a)	**8 oct(a)**
9 non(a)	**10 dec(a)**

Naming Molecules

P_2O_3	Diphosphorus trioxide
N_2O_5	Dinitrogen pentoxide
CO_2	Carbon dioxide
N_2O	Dinitrogen monoxide
CO	Carbon monoxide
H_2O	Dihydrogen monoxide
CS_2	Carbon disulfide
P_2S_3	Diphosphorus trisulfide

Naming Molecules

- Leftmost element in periodic table goes first
  - It's really the one that's most "positive"
- Other element gets "ide" treatment
- The number of atoms is stuck on the front of each in Greek
  - Skip the "mono" for the first one
  - Don't stick o-o or a-o together
    - tetr<u>a</u>chloride, but tetroxide, not tetraoxide
    - mon<u>o</u>sulfide, but monoxide, not monooxide

Nicknames (that stuck)

H_2O	Water
H_2O_2	Hydrogen Peroxide
NH_3	Ammonia
N_2H_4	Hydrazine
NO	Nitric Oxide
N_2O	Nitrous Oxide