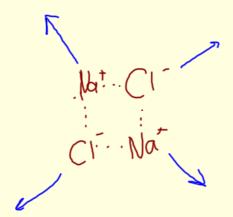
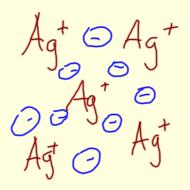
p. 203 #23-29





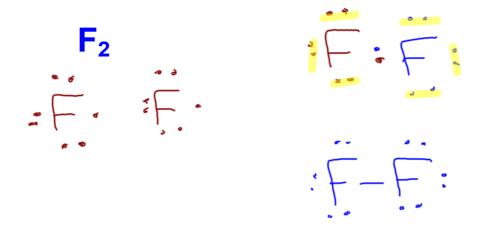
Electronegativity

Electronegativity

The ability of an atom in a compound to attract electrons

Trends

- Within a group, electronegativity decreases from top to bottom
- Within a period, electronegativity increases from left to right



Lone pair (unshared pair)

A pair of valence electrons not shared between atoms

H_2O

CH₄

- one of carbon's 2s electrons is promoted to the 2p orbital:

$$\frac{1}{2p} = \frac{1}{1} \cdot \frac{1$$

Double covalent bond

Two shared pairs of electrons

Triple covalent bond

Three shared pairs of electrons

$$CO_2$$

$$CO_3$$

$$CO_2$$

$$CO_3$$

$$CO_3$$

$$CO_4$$

$$CO_2$$

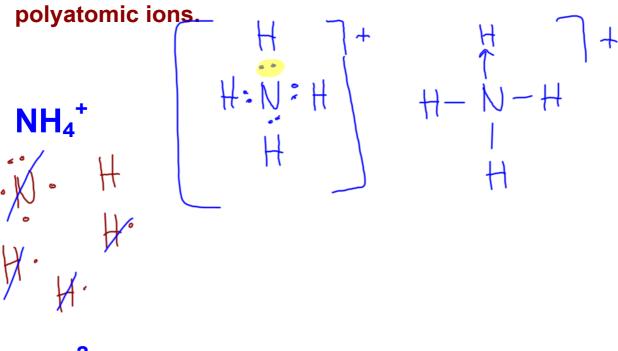
Coordinate Covalent Bonds



Coordinate Covalent Bond

A covalent bond in which one atom contributes a shared pair of electrons.

- Coordinate covalent bonding is common in



SO₃²⁻

Homework

p. 220 #7, 8

p. 225 #9-12