

### Hydrogen

odorless gas

diatomic

exception-not similar to his group members

### 1A-Alkali metals

soft metallic solids

low density and low melting points

highly reactive

only in compounds

### 2A-Alkaline Earth Metals

harder

more dense

higher melting points than 1A

less reactive than 1A

### 4A

bond with nonmetals

2 additional bonds with Lewis bases

only C forms strong pi bonds

### 5A

3 covalent bonds

P can only form weak pi bonds --> double bonds

only N and P can form pi bonds

### 6A-Chalcogens

#### oxygen

2nd most electronegative

divalent

forms strong pi bonds

#### sulfur

metal sulfides commonly found

strong pi bonds

2, 3, 4 to 6 bonds

### 7A-Halogens



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