Characteristics within groups Cheat Sheet

by pudding_overlord via cheatography.com/83923/cs/19849/

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	sulfur
2nd most electr-onegative	metal sulfides commonly found
divalent	strong pi bonds
forms strong pi bonds	2, 3, 4 to 6 bonds

7A-Halogens

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