Review of Concepts

Molecular Compounds vs. Ionic Compounds

Covalent Bonds vs. Lonic Bonds

Naming Molecular Compounds

- named similarly to ionic compounds
- name first element listed, with a prefix to count number of atoms (do not use a prefix for one atom of the first element)
- name second element, with a prefix to count number of atoms. Change the suffix to -ide

# of Atoms	Prefix '

Ex. CS₂

Ex. CF₄

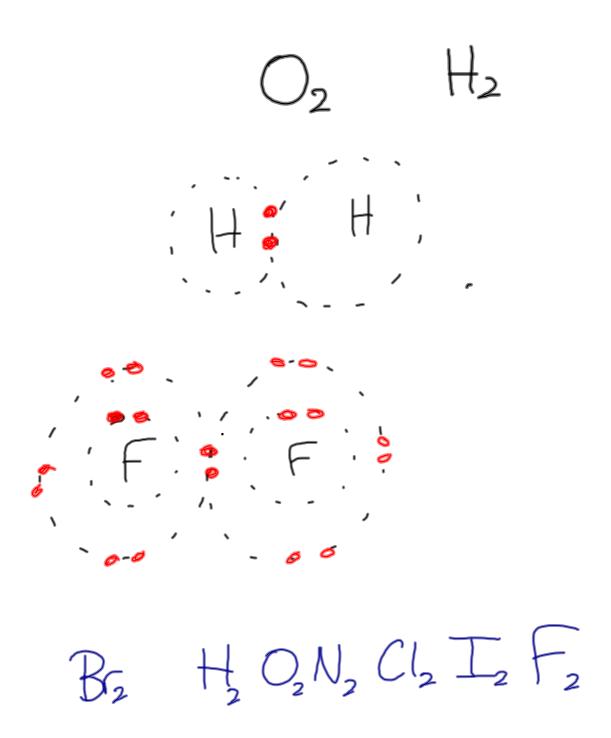
Ex. N₂O

Name the following molecular compounds:

PCl ₅	phosphorous pentachloride	
NO	nitrogen monoxide	(OH-)
NH_3	nitragen trihydride	
N_2O_5	dinitragen pentoxide	



Diatomic Molecules



Homework

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Molecular Compounds Sheet

Hydrocarbons

- substances made from molecules of once living things are called organic
- they must contain carbon
- o the simplest organic compound is methane
- CH₄
- carbon has a combining capacity of four
- o it can make four bonds making it very versatile
- two major sources of organic materials are the decomposition of plants and photosynthesis
- o hydrocarbons are the result of plants that lived millions of years ago and died, being trapped underground
- they are compounds of carbon and hydrogen found in various combinations
- they are also called fossil fuels

Synthetic Substances

- natural products are obtained from natural sources
- o animals, plants, and minerals
- synthetic substances are artificially made
- manufactured in the chemical industry
- they mainly come from petrochemicals
- when many molecules are linked together in long chains, polymers are formed
- o when polymers can flow, they are called plastic
- artificial substances can be made into fibre and fabric
- o polyester and nylon are two examples