

Molecular Compounds

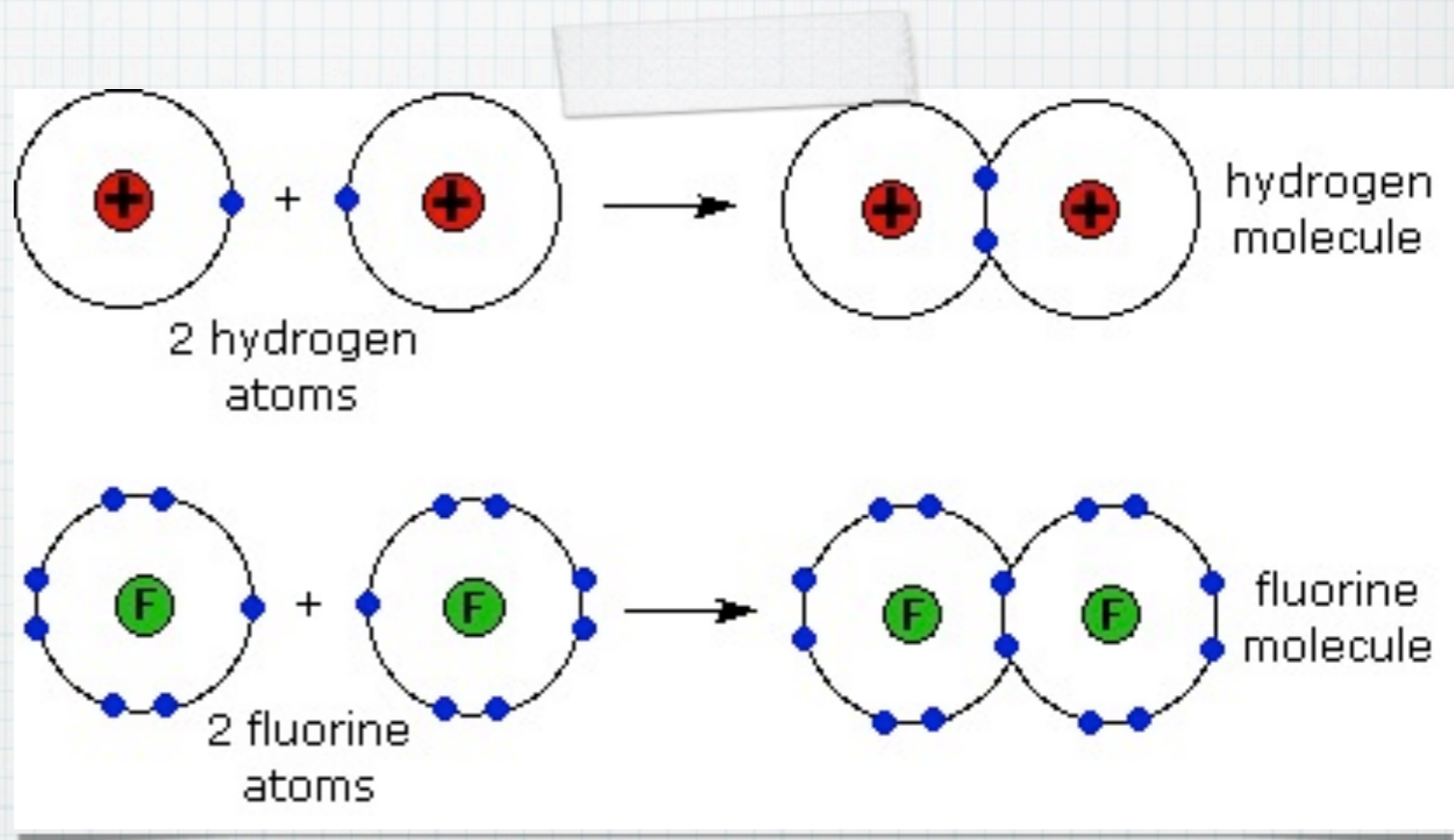
Covalent Compounds

- * A pure substance formed from two or more **NON-METALS**

Covalent Compounds

- * Non-metals share electrons to get a full outer shell

- * This creates a covalent bond = a bond that results from the sharing of outer electrons between non-metal atoms



Naming

- * Can't use charges to figure out how many of each atom.
- * Elements in the name are given prefixes corresponding to the subscripts (number of atoms) and the second element is given the suffix "-ide."
- * e.g. CO_2 is carbon dioxide

The Prefixes

Number	Prefix
1	mono*
2	di
3	tri
4	tetra
5	penta
6	hexa
7	hepta
8	octa
9	nona
10	deca

* The 1st element in the name never need a mono-

Examples

* Try the following:

* OF_4

* N_2O

* Cl_2O_7

Examples

- * Try the following:
- * OF_4
 - * Oxygen tetrafluoride
- * N_2O
 - * dinitrogen monoxide
- * Cl_2O_7
 - * dichlorine heptoxide

Examples

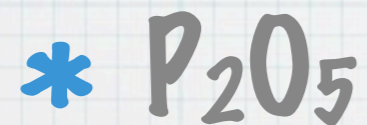
- * iodine trichloride
- * diphosphorus pentoxide
- * sulphur hexaiodide

Examples

* iodine trichloride



* diphosphorus pentoxide



* sulphur hexaiodide



Diatomic Gases

*HOFBrI
NCl

- * are called simply the name of element + "gas"

