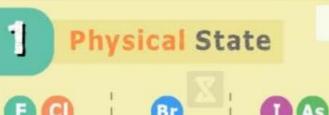
HALOGENS



Gas

Liquid

Solid

REACTIVITY

Reactivity decreases down the group as it is harder to add electrons.





INTER HALOGEN

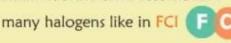
Halogens combine with each other to forms series

of compounds like

AX AX3 AX5 AX7

Large molecules can accomodate more halogens like in IF7

Small fluorine can't accomodate





Halogens exhibits variable oxidation states. starting from -1 to 7.

Fluorine can't show positive oxidation state.





They have seven valence electrons

> GENERAL CONFIGURATION ns2 np5







Acidity decreases down the group

is the strongest acid which can dissolve glass also.

6 WAR FARE





Germany used chlorine in world war- I against France.

Chlorine gas destroys respiratory organs.

8 **ECTRONEGATIVITY**

Atomic size increases down the group, therefore electronegativity decreases down the group.



CI





lodine is used in Disinfectants





Bromine is used for developing Photographic films



