9 F Fluorine

Group 7 - The Halogens

GROUP 7 IS THE ONLY GROUP THAT CONTAINS ELEMENTS IN ALL THREE STATES OF MATTER. THEY ARE ALL REACTIVE NON-METALS

17 Chlorine

35 Br Bromine

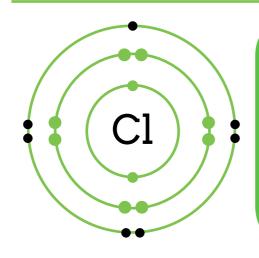
53 Iodine

85 At Astatine

117 Uus Ununseptium

IODINE & ASTATINE SOLIDS AT ROOM TEMPERATURE BROMINE **LIQUID** AT ROOM TEMPERATURE FLUORINE & CHLORINE GASES AT ROOM TEMPERATURE

THE HALOGENS ALL FORM DIATOMIC MOLECULES EXCEPT FOR ASTATINE



GROUP 7 ELEMENTS HAVE SEVEN VALENCE ELECTRONS

THE REACTIVITY OF THE HALOGENS DECREASES DOWN THE BECOMES HARDER

1 GRAN

ESTIMATED AMOUNT OF AT ANY ONE TIME



HYDROFLUORIC ACID LEACHES CALCIUM FROM BONES AND CAN CAUSE VERY PAINFUL BURNS

IT ALSO DISSOLVES GLASS

THE HALOGENS REACT WITH OXYGEN TO FORM HALOGEN OXIDES

THE HALOGENS REACT W I T HMETALS TO FORM METAL HALIDES

THEHALOGENS ARE USED **OXIDISING AGENTS** WHILST HALIDE LONS ARE USED **REDUCING AGENTS**

IONS

USES O F THE HALOGENS



FLUORINE

TOOTHPASTE

RFFRIGFRANT GASES



CHLORINE

BLEACH

CHEMICAL WARFARE



BROMINE

FIRE RETARDANT MATERIAL S



IODINE

DISINFECTANTS