

# Periodic Table : Groups 0, 1 and 7

Noble Gases

## Group 0

A Full Outer Shell Of 8 Except Helium (Full Shell Of 2)

Highly Unreactive

Boiling Point And Relative Atomic Mass Increases Down The Group

Alkali Metals

## Group 1

1 Electron In The Outer Shell

Highly Reactive

metal + oxygen → metal oxide

Burn In Oxygen To Produce Metal Hydroxides

metal + water → metal hydroxide + hydrogen

React With Water To A Metal Hydroxide And Hydrogen

Reactivity Increases Down The Group

Halogens

## Group 7

7 Electrons In The Outer Shell

Fluorine - Poisonous Yellow Gas

**most general anesthetics are derived from compounds of fluorine**

Chlorine - Dense Green Gas

**used to sterilise water**

Bromine - Dense, Poisonous, Red-Brown Volatile Liquid And Orange Vapour

**used in making pesticides and plastics**

Iodine - Poisonous Dark Grey, Crystalline Solid Or Purple Vapour

**used to sterilise wounds**