

Periodic Table

CLASS-X
PART-I

Groups - 18

Group 1: Alkali

Group 2: Alkaline Earth Metals

Group 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12: transition element

Group 13: Boron family

Group 14: Carbon family

Group 15: Nitrogen family

Group 16: Oxygen family

Group 17: Halogens

Group 18: Noble gases

Periods - 7 horizontal rows

Periodic Properties

1. atomic size: distance between centre of nucleus of an atom and its outermost shell.

Atomic Size depends on:

i) number of shells - number of shells increases
atomic size increases

ii) nuclear charge - nuclear charge increases
atomic size decreases

trend in atomic size
down the group:

atomic size increases

Across the a period:

Atomic size decreases

2. Metallic Character

Metallic character depends on:

- i) atomic size: more the atomic size, more metallic is the element
- ii) Nuclear charge: increases in nuclear charge decrease in metallic character

trends in metallic character:

down the group: metallic character increases

across the period: metallic character decreases

3. Non-Metallic Character

Non-metallic character depends on:

~~to~~ i) atomic size: smaller the atomic size more non-metallic by nature.

ii) Nuclear charge: Greater the nuclear charge, more non metallic is the element

trends in non-metallic character

down the group: non-metallic character decreases

across the period: non-metallic character increases