Chemistry Formula Sheet

Chapter by chapter, topic by topic. Written by the PadhoNa team for quick revision.

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CHAPTER 11

s Block Elements

Alkali metals

$$\text{reducing power in water: Li} > \text{Cs} > \text{Rb} > \text{K} > \text{Na (hydration enthalpy of Li}^{+}\text{)}$$

OXIDES WITH EXCESS O_2

$$\text{Li}_2\text{O},\ \text{Na}_2\text{O}_2,\ \text{KO}_2\ (\text{K, Rb, Cs})$$

$$\text{flame colours: Li crimson, Na yellow, K violet}$$

Alkaline earth metals and compounds

SOLUBILITY TRENDS

$$\text{sulphates}\downarrow \text{ down the group;} \qquad \text{hydroxides}\uparrow \text{ down the group}$$

$$\text{gypsum } \text{CaSO}_4 \cdot 2\text{H}_2\text{O} \xrightarrow{393\ \text{K}} \text{plaster of Paris } \text{CaSO}_4 \cdot \tfrac{1}{2}\text{H}_2\text{O}$$

DIAGONAL RELATIONSHIP

$$\text{Li–Mg},\ \text{Be–Al},\ \text{B–Si}$$

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