ROYAL SOCIETY OF CHEMISTRY

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GROUP 2

Hydroxides

- Formulae
  - $Mg(OH)_2$
  - $Ca(OH)_2$
  - $Sr(OH)_2$
  - $Ba(OH)_2$
- Increasingly soluble $Mg(OH)_2$ to $Ba(OH)_2$
- Basic
  - Affect indicators *eg* Universal indicator blue
  - React with acids *eg* $Ca(OH)_2 + 2HCl \rightarrow CaCl_2 + 2H_2O$

Oxides

- Formulae
  - MgO
  - CaO
  - SrO
  - BaO
- Basic
  - React with acids *eg* $MgO + H_2SO_4 \rightarrow MgSO_4 + H_2O$

Elements

- Symbols
  - Mg
  - Ca
  - Sr
  - Ba
- magnesium
- calcium
- strontium
- barium

Carbonates

- Formulae
  - $MgCO_3$
  - $CaCO_3$
  - $SrCO_3$
  - $BaCO_3$
- Less soluble $MgCO_3$ to $BaCO_3$
- Decompose when heated *eg* $BaCO_3 \rightarrow BaO + CO_2$
  - More difficult to decompose $MgCO_3$ to $BaCO_3$