

3+ ions distort oxygen's electron cloud

Macromolecule with strong covalent bonds

Highest melting point out of the non-metal oxides

SiO₂

P₄O₁₀ and SO₂

Simple molecular structure with weak intermolecular forces

Relatively low melting points

Melting point of oxides

Depends on the bonding and structure present

Melting Point of Oxides

2.4 PROPERTIES OF PERIOD 3 ELEMENTS AND THEIR OXIDES

Bonds are partially covalent

Lower melting point than MgO

Al₂O₃

High melting points

Na₂O

Metal oxides with giant ionic lattice

MgO

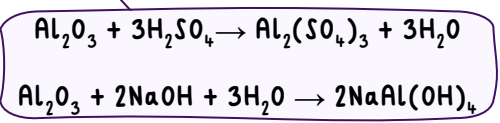
Higher melting point than Na₂O

2+ ions bond more strongly to the oxide ion

Neutralisation Reactions

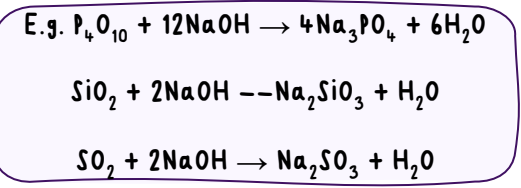
Acidic oxides

Neutralise acids and bases



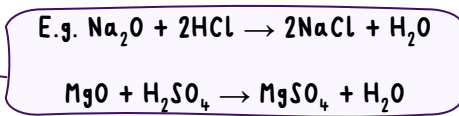
Acidic oxides

Neutralise bases



Acidic oxides

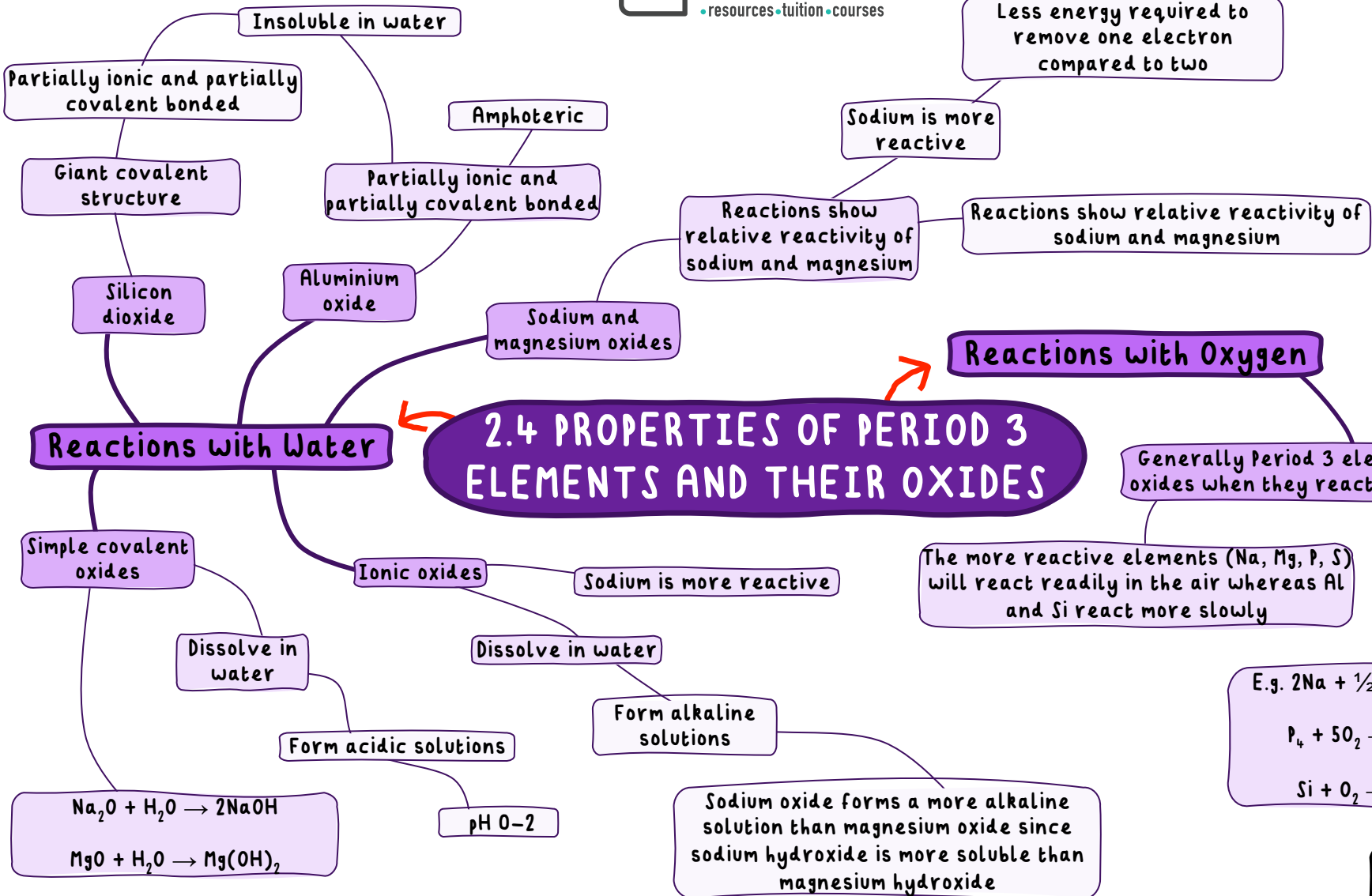
Neutralise acids



AQA



2.4 PROPERTIES OF PERIOD 3 ELEMENTS AND THEIR OXIDES



AQA

