

CHEMICAL vs PHYSICAL BEHAVIOR

Physical Weathering

- Frost wedging
- Exfoliation
- Abrasion

Chemical Weathering

- Hydrolysis
- Oxidation
- Dissolution
- Increases in warm, wet climates

ISCHEMATIC CONCEPTS

Isostasy

- Buoyant equilibrium of crust
- Thicker crust = deeper root

Seafloor Spreading

- Symmetrical magnetic stripes
- Youngest rock at ridge
- Age increases away from ridge

KEY EXAM DISTINCTIONS

- Mafic = Mg + Fe rich
- Felsic = Feldspar + Silica rich
- Viscosity controlled by silica + temperature + volatiles
- Density differences drive subduction
- Explosivity tied to trapped gas + viscosity