1. Structure of the Earth

- Layers of the Earth: Crust, Mantle, Outer Core, Inner Core
- Tectonic Plates: Definition, names of major plates, plate boundaries
- Types of Plate Boundaries:
- Constructive (e.g., Mid-Atlantic Ridge)
- Destructive (e.g., Andes Mountains)
- Conservative (e.g., San Andreas Fault)
- Earthquakes: Causes, focus, epicentre, seismograph, Richter scale
- Volcanoes: Types (active, dormant, extinct), effects (positive & negative), examples

2. Rocks

- Types of Rocks:
 - Igneous (e.g., granite, basalt) formed from cooled magma/lava
 - Sedimentary (e.g., limestone, sandstone) formed from compressed sediments
 - Metamorphic (e.g., marble, quartzite) changed by heat/pressure
- Rock Cycle: Processes linking all rock types
- Uses of Rocks: Building materials, fossil fuels, decoration

3. Weathering

- Types of Weathering:
- Mechanical (e.g., freeze-thaw)
- Chemical (e.g., carbonation)
- Biological (e.g., roots breaking rock)
- Effects of Weathering: Formation of soil, breaking down of rocks
- Differences between Weathering and Erosion

4. Mass Movement

- Definition: The movement of weathered material downslope due to gravity
- Types of Mass Movement:
 - Soil creep (slowest)
- Bog bursts
- Mudflows
- Landslides (fastest)
- Factors Affecting Mass Movement: Slope gradient, water content, vegetation, human activity

5. Rivers

- River Stages:
 - Upper course: Features like V-shaped valleys, waterfalls
- Middle course: Meanders, wider valleys
- Lower course: Floodplains, deltas
- River Processes:
- Erosion (hydraulic action, abrasion, etc.)
- Transportation (traction, saltation, etc.)
- Deposition
- Landforms of Erosion & Deposition
- Human Interaction with Rivers: Flood control, pollution, dams

6. The Sea (Coastal Processes)

- Processes of Coastal Erosion: Hydraulic action, abrasion, attrition
- Coastal Features:
 - Erosional: Cliffs, sea arches, stacks, bays and headlands
 - Depositional: Beaches, sand spits, tombolos

Junior Cycle Geography Revision Guide

- Coastal Protection: Sea walls, groynes, rock armour
- Human Impact on the Coast: Tourism, construction, erosion