



Physical Geography: Rocks & Surface Process Methodologies

Today's Learning Intentions

To examine how student learn about physical processes

To identify methodologies which support student understanding of rocks cycle and processes

To examine and share methodologies which support student understanding of surface processes

To examine and share methodologies which support student skills development for rocks and surface processes

Planning Physical Geography Learning Outcomes



LEAVING CERTIFICATE

GEOGRAPHY
SYLLABUS

Practical

Real

Simple

Patterns & Processes in the Physical Environment

Learning objectives

Ordinary Level Students will :

Show an understanding of the processes of rock formation, weathering and erosion

Explain the processes of landform development involving the interaction of the tectonic cycle, rock cycle, and surface processes

Understand and use the skills listed to describe the physical environment

Patterns & Processes in the Physical Environment

Learning objectives

Higher Level Students will :

Explain and illustrate the continual process of rock formation, change and destruction

Explain and illustrate how landforms develop from the interaction of the tectonic cycle, rock cycle, and surface forces

Understand and use the skills listed above to interpret the physical environment.

Leaving Certificate Core One Section One Skills

In the study of this unit,
students understand and use, where appropriate, the geographical skills of

map interpretation

figure interpretation

photograph analysis

statistical analysis

figure drawing

information technology applications.

Rocks

Learning Activity – Rock Identification

- Rock Samples
- Nails
- Coins
- Sandpaper
- Table mat/worksheet
- Resources and prior knowledge
- Markers/Pens

Geology Map Jigsaw

- Geology map of Ireland
- Blank jigsaw template
- Colouring materials
- Laminating pouches
- Scissors
- Envelopes for separate jigsaws

Surface Erosion Processes

Fluvial Processes

Hydraulic Action
Abrasion/Corrasion
Attrition
Solution



Glacial Processes

Plucking
Abrasion

Coastal Processes

Hydraulic Action
Abrasion/Corrasion
Attrition
Solution
Compression

Fluvial Erosion Processes

Hydraulic Action



Abrasion/Corrasion



Attrition



Solution



Coastal & Glacial Erosion Processes

Compressed Air



Plucking



Abrasion



Surface Processes and Skills

With aid of diagram(s) describe the formation of river landform.

With the aid of diagram(s) describe the formation of coastal/glacial landform.

Storyboards

Describe the formation of a Fluvial Landform



Describe the formation of a Coastal Landform



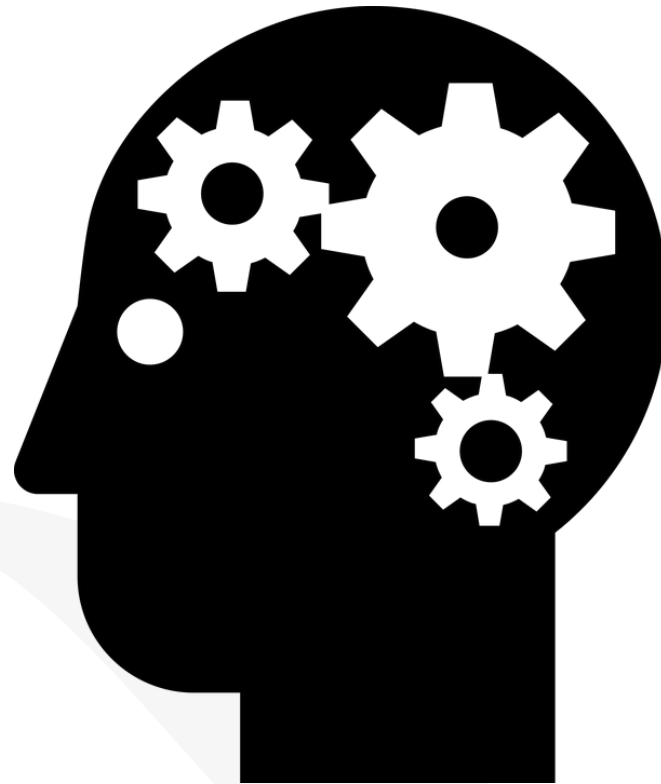
Describe formation of a Glacial Landform



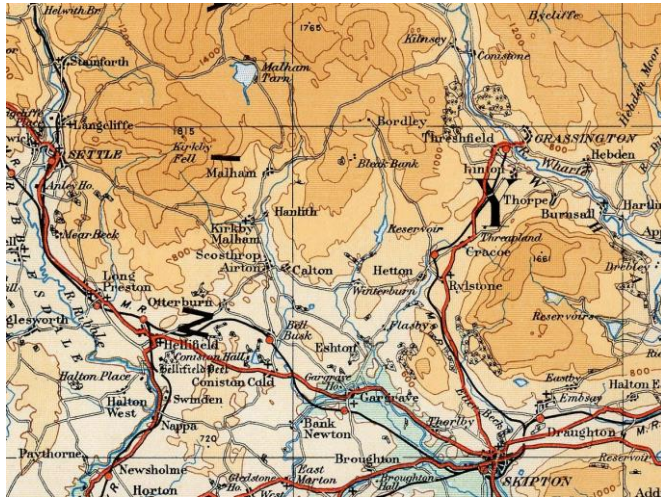
Describe formation of a sedimentary rock



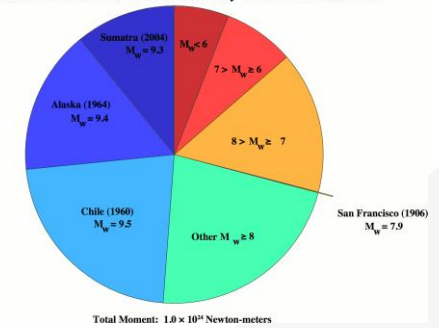
Six Minute Activity



Surface Processes – Skills Development



Global Seismic Moment Release January 1906 - December 2005



Link Skills and Understanding

