

## GLOSSARY

**GEOMORPHOLOGY** = The study of landforms which come about as a result of material forces.

**EROSIONAL FEATURE** = A landform which has been caused by the tearing down of the land such as a deep river cut canyon.

**DEPOSITIONAL FEATURE** - A landform which has been caused by the addition of materials or deposits such as a glacial moraine or a dome.

**EXFOLIATION** = The separation, during weathering, of successive shells from massive rocks. The resulting sheets of rock resemble the "skins" of an onion.

**MORPHOLOGY** = A study of the shape of things.

**ESKER** = A body of ice-contact stratified drift shaped into a long narrow ridge, commonly sinuous.

**DRUMLIN** = A streamline hill consisting of drift, generally till, and elongated parallel with the direction of glacier movement.

**MORAINE** = A ridgelike accumulation of drift, deposited by a glacier along its front margin.

**SPIT** = An elongate ridge of sand or gravel projecting from the mainland and ending in open water.

## QUIZ

1) Landform can be classified into two categories:

Erosional( those caused by the wearing down of the land) and Depositional( those caused by adding to the land surface) Identify the following landforms as Erosional (E) or Depositional (D)

- A) Natural Arch
- B) Dune
- C) Canyon
- D) Exfoliated Dome
- E) Talus Pile
- F) Water Fall
- G) Cinder Cone Volcano
- H) Natural Bridge
- I) Lava Plateau
- J) Arroyo
- K) Horn
- L) Drumlin

2) Tell which of the forces of nature caused the following landforms:

- A) Beach
- B) Exfoliated Dome
- C) Shield Cone
- D) Moraines
- E) Aretes
- F) Striae + grooves
- G) "V" - shaped Valley
- H) Hooks
- I) Dune
- J) Composite Cone
- K) "U" shape Valley
- L) Talus
- M) Eskers
- N) Natural Bridge
- O) Natural Arch
- P) Spits

Your choices are:

- 1) Volcanoes
- 2) Gravity
- 3) Running Water
- 4) Temperature Changes
- 5) Wind
- 6) Faulting & Folders
- 7) Glaciers
- 8) Ocean Currents

## TEACHER'S ACTIVITIES:

1) For a few hours invested in this project, a teacher can have a powerful learning resource in the classroom. Go through magazines and clip out landforms. Travel and leisure magazines are especially rich in photos showing geologic landforms. Encourage students to do the same and have them make up a file system to separate their pictures. Have the students collect several examples from the following categories

- 1) Erosional features
- 2) Depositional features
- 3) Glacial features
- 4) Volcanic
- 5) Work of the wind
- 6) Features caused by running water
- 7) Features caused by earthquakes and mountain building
- 8) Ocean and lake features

2) Make up a list of geologic features found in your area or state. Include such features as:

- 1) Bodies of water
- 2) Waterfalls and rapids
- 3) Glacial features ( Kames, eskers, moraines, etc.)
- 4) Volcanic activity ( lava flows, cinder cones, etc.)
- 5) Erosional or depositional features

3) Put together your own 35mm slide presentation of geomorphological features. Slides are available in most tourist destinations. Many government agencies also have slides.

## QUIZ ANSWERS

### QUESTION # 1

- A) E    B) D    C) E    D) E  
E) D    F) E    G) D    H) E  
I) D    J) E    K) E    L) D

### QUESTION # 2

- A) 8    B) 4    C) 1    D) 7  
E) 7    F) 7    G) 3    H) 8  
I) 5    J) 1    K) 7    L) 2  
M) 7    N) 3    O) 5    P) 8

## Physical Geography II Series

# GEOMORPHOLOGY:

## A STUDY OF THE SHAPE OF THE EARTH

KG1172DVD

### PROGRAM DESCRIPTION

A new concept in learning, this program introduces the student to the various forces which have shaped our earth. These include wind, running water, glaciers, volcanoes, temperature changes, gravity, ocean currents, faulting and folding.

The first part of the program introduces each of these concepts to the student with various examples. Students are then shown 50 land formations and are expected to tell the cause. After this has been done the student can rewind the tape, turn up the sound and the narrator tells a little about each formation. Following this section the student is asked to respond to 20 questions about land forms and their origin.

This program is designed for large class instruction or for independent study. Teachers can also use the tape as a practical examination on landforms.

## TEACHER / STUDENT GUIDE

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