



FEATURES OF EROSION

| | |
|------------------|---|
| OBJECTIVE | Students will learn 11 key features of glacial erosion. |
| GRADES | Middle or High School students |
| DURATION | 25 minutes |
| MATERIALS | <ul style="list-style-type: none">▪ Copies of the <i>Features of Erosion</i> worksheet for each student▪ <i>Features of Erosion</i> PowerPoint presentation▪ Computer connected to a large classroom screen |
| KEY TERMS | Arête, cirque, fjord, glacial basin, hanging valley, horn, roche moutonnée, tarn, truncated spur, u-shaped (glacial) valley, whaleback |



FEATURES OF EROSION

NATIONAL EDUCATION STANDARDS:

Science:

NS.5-8.1 Science as Inquiry

- Abilities necessary to do scientific inquiry
- Understandings about scientific inquiry

NS.9-12.1 Science as Inquiry

- Abilities necessary to do scientific inquiry
- Understandings about scientific inquiry

NS.5-8.4 Earth and Space Science

- Structure of the earth system

NS.9-12.6 Personal and Social Perspectives

- Natural resources

NS.5-8.6 Personal and Social Perspectives

- Populations, resources, and environments.

NS.9-12.7 History and Nature of Science

- Science as a human endeavor
- Nature of scientific knowledge

NS.5-8.7 History and Nature of Science

- Science as a human endeavor
- Nature of science



FEATURES OF EROSION

ANSWER KEY

FEATURES OF EROSION

| | |
|----------------------------------|---|
| Arête | <i>SHARP ROCK RIDGES BETWEEN TWO STEEP, GLACIALLY SCULPTED SLOPES</i> |
| Cirque | <i>STEEP-WALLED, GENTLE-FLOORED SEMICIRCULAR HOLLOW FOUND HIGH IN MOUNTAINOUS AREAS.</i> |
| Fjord | <i>LONG, NARROW, DEEP ARM OF THE SEA FILLING A GLACIATED COASTAL MOUNTAIN VALLEY.</i> |
| Glacial Basin | <i>CLOSED BEDROCK BASIN CREATED BY LOCALIZED GLACIAL EXCAVATION. MANY OF THESE BASINS HARBOR LAKES.</i> |
| Tarn | <i>A SINGLE GLACIAL BASIN LAKE.</i> |
| Hanging Valley | <i>A GLACIER VALLEY THAT ENDS WHERE IT MEETS A DEEPER GLACIER VALLEY AND FORMS A CLIFF.</i> |
| Horn | <i>HIGH, SHARP, STEEP-SIDED PYRAMIDAL PEAK.</i> |
| Roche Moutonnée | <i>A GLACIAL LANDFORM THAT SHOWS BOTH ABRASION AND PLUCKING.</i> |
| Truncated Spur | <i>THE TOE OF A MOUNTAIN OR HILL THAT HAS BEEN ERODED AWAY BY A GLACIER.</i> |
| U-Shaped (Glacial) Valley | <i>A "U"-SHAPED VALLEY IS FORMED WHEN A GLACIER IS ABLE TO SCOUR ITS SIDES AS WELL AS ITS BASE. (THIS DIFFERS FROM RIVER VALLEYS WHICH HAVE A MORE CHARACTERISTIC "V" SHAPE.)</i> |
| Whaleback | <i>SMOOTH, GLACIALLY-SCULPTED BEDROCK KNOB OF MODEST SIZE RESEMBLING THE BACK OF A WHALE.</i> |

