

## Vocabulary Words for Weathering and Erosion

|                              |                               |                           |
|------------------------------|-------------------------------|---------------------------|
| Weathering                   | wetting and drying            | mass movement             |
| Erosion                      | acid (in terms of weathering) | creep                     |
| Mechanical weathering        | resistance                    | water budget              |
| Chemical weathering          | soil profile                  | evapotranspiration        |
| Oxidation                    | topsoil                       | deficit                   |
| Hydrolysis                   | residual soil                 | surplus                   |
| Ice wedging/<br>Frost action | parent material               | water storage             |
| Exfoliation                  | Bedrock                       | recharge                  |
| Jointing                     | Humus                         | porosity                  |
| Impermeable                  | Subsoil                       | permeability              |
| Geyser                       | Water table                   | ground water              |
| Abrasion                     | Mineral springs               | sink hole                 |
| Bedload                      | Solution                      | suspension                |
| Base level                   | Carrying capacity             | discharge                 |
| Pothole/plunge pool          | Gully                         | drainage basin/<br>divide |
| Meander                      | Oxbow/oxbow lake              | delta                     |
| Alluvial fan                 | Flood plain                   | erratic                   |
| Unsorted till                | Glacier                       | alpine                    |
| U-shaped valley              | Cirque                        | V-shaped valley           |
| Kettle/kettle lake           |                               |                           |

\*\* Be able to identify several forms of weathering and provide examples of each.

\*\* Be able to predict how fast a rock will weather and why.

- \*\*\* In terms of chemical and mechanical weathering, what type of climate would each be found in?
- \*\*Be able to draw a soil profile and label the different soil horizons.
- \*\*Be able to calculate a water budget. Know the conditions for surplus and deficit.
- \*\* Be able to calculate the stream velocity to move certain sediments (using ESRT chart)
- \*\* Be able to identify which sediments will fall out of suspension according to water velocity.
- \*\*Be able to identify where water is weathering and depositing on a stream profile or overhead view.
- \*\*Be able to identify where a glacier is weathering or depositing material.
- \*\*Be able to calculate discharge of a stream