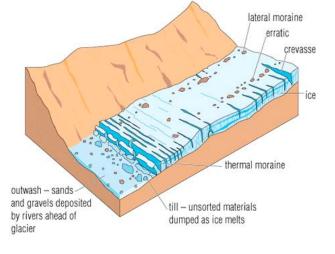
Erosion Notes

Name:

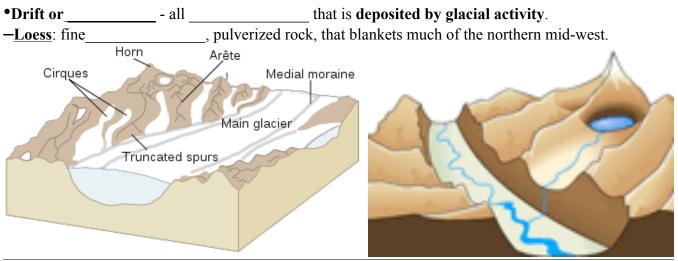
•<u>Erosion</u>: The ______ and _____ of weathered materials by natural agents -<u>Caused by</u>: Gravity, Glaciers, Running Water, Wind, and Waves (the 2 G's and 3 W's) Learn these!

1. Glaciers



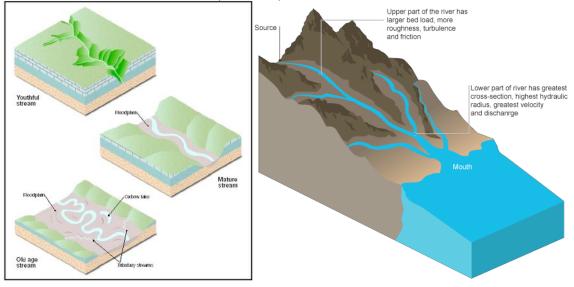
| •Mass of that moves (like a river) under its own weight. |
|---|
| •at the base of the glacier is reduced by a thin film of |
| •Glaciers account for about% of the fresh water on Earth. |
| •Glacial <u>Erratic</u> : Glaciers can leave behind large that are known as an |
| •Glaciers can move lots of sediment that can carve (or striped grooves) into rocks. |

Glacial Deposits and Glacial Landforms:



- •<u>Cirque:</u> Steep-walled _____-shaped depression.
- •Horne: A ______ shaped peak where 3 or more cirques meet.
- •<u>Trough:</u>_____shaped valley *Glaciers carve U shaped valleys*
- •Hanging valley: Straight ______ at the end of a trough
- •<u>Arete</u>: Narrow flat-topped ______ that forms between two parallel troughs or cirques.
- •<u>Moraine</u>: Pile of mixed ______ that have been carried and dropped by the ______.
- •Eskers: Mounds of ______ from ______.

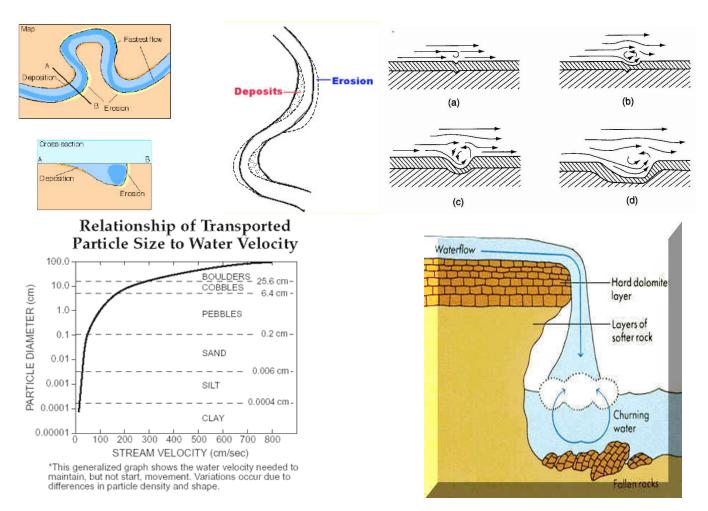
2. Streams and Rivers (Water)



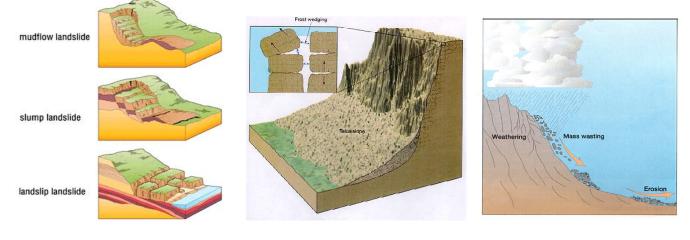
- •_____: How ______ the water moves.
- •_____: The **steepness**, the ______ that a river or stream travels.
- •If there is a steep gradient, high velocity, and a large discharge, then Erosion will be severe!

•Rivers have energy to move lots of sediment, and even large boulders.

•River _____: ____ in the river, shows how mature a river is.



3. Mass Movement (Gravity)



•<u>Mass movement:</u> The ______ transportation of weathered materials by gravity.

•Creep

| -Very movement of earth material. | |
|-----------------------------------|--|
|-----------------------------------|--|

-Caused by repeated ______ and _____.

are loosened by expanding frost and contracting thaw.

-Leaning fence posts and telephone poles are a sign of

•Slump

- -Slow downward movement of a _____
- -Occurs when underlying sediments are weakened by
- -Characterized by a curved scar in the land surface. Slump can cause road hazards

•Mudflow/Earthflow

- -Thick pastes of sediments that travel downhill at _____
- -Usually occur in ______ areas that get a large quantity of rain all at once
- -Leaves a cone shaped deposit

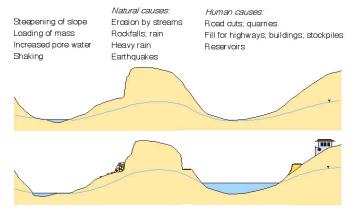
•Landslide/Rockslide

— movement of large blocks of .

-Occurs in very ______ vertical cliffs.

-Often accelerated by _____

Factors favoring glides, slumps, and flows

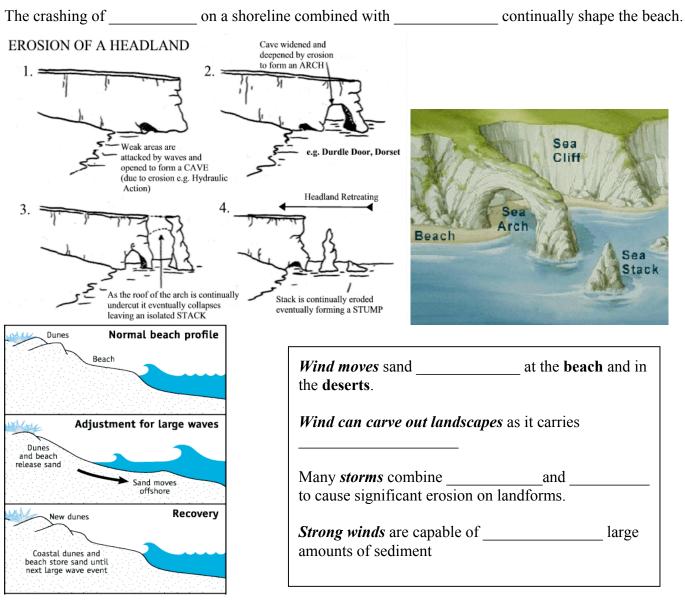




Most likely in fractured rocks at cliffs

Hummocky topography Most liikely in sandy sediments or soils, or unconsolidated clays; especially if wet.

4 & 5. Wind and Waves



Deposition: the process of ______ or depositing soil and sediments!

