
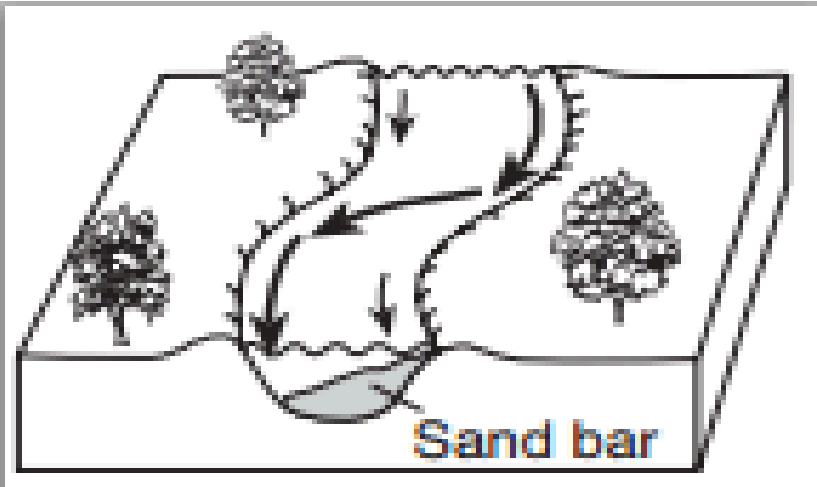
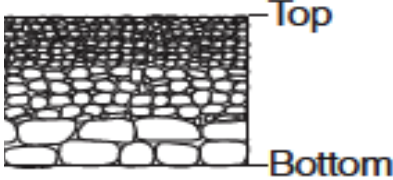
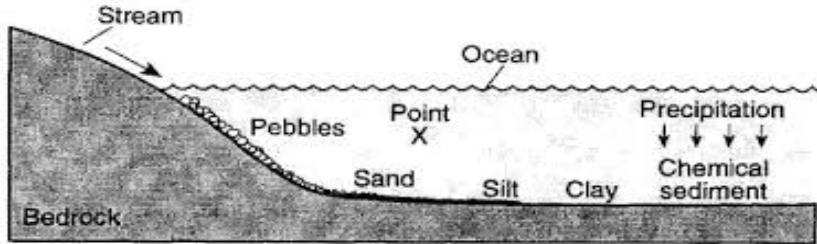
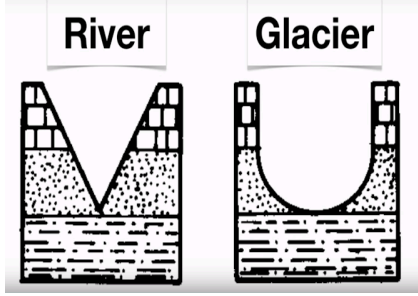
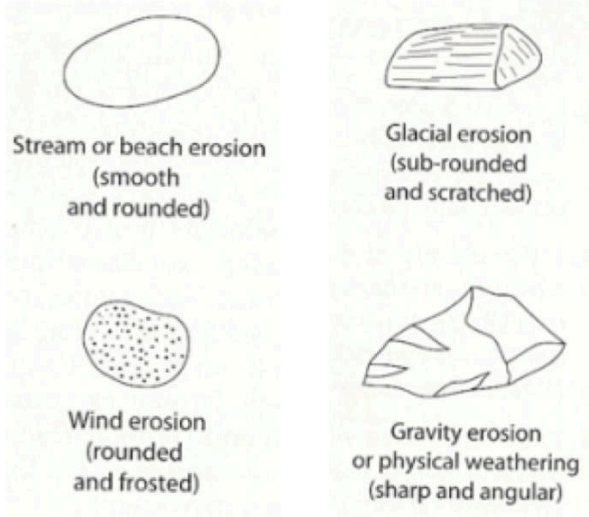
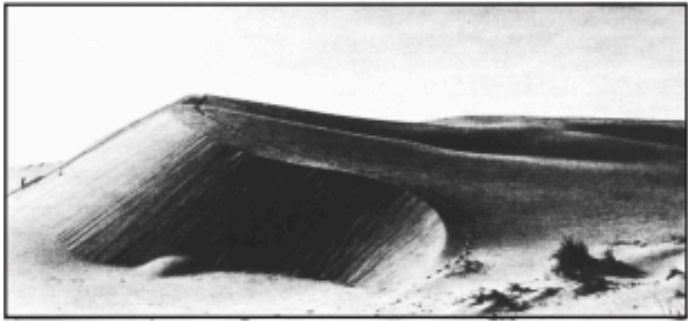

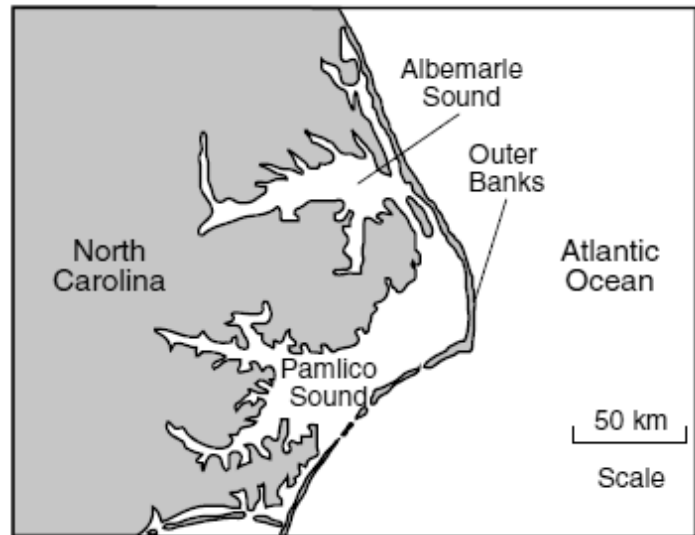


Need to Know - Weathering Erosion and Deposition

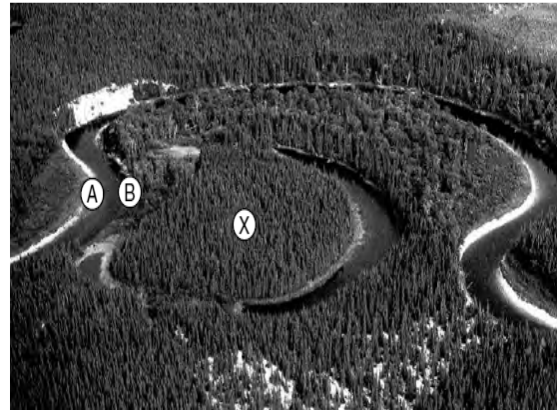
| | |
|---|--|
| <ol style="list-style-type: none"> 1. Weathering –physical and chemical breakdown of rock (How rock break) 2. Erosion – transportation of sediments (How rock move) 3. Deposition - settling of sediments from erosional system (Where rock go) |  |
| <ol style="list-style-type: none"> 4. Gravity is behind all erosion (wind, running water, glaciers, ocean waves). 5. Streams are the number one agent of erosion 6. Stream velocity depends on channel shape, slope and discharge (amount of water in stream) 7. Velocity is faster on outside of meander bend – erosion occurs there and it is deepest 8. Longer arrows represent higher velocity water, Notice that the water is deeper on the outside of the curve. |  |
| <ol style="list-style-type: none"> 9. Heavy-dense round particles settle out first in water 10. Graded bedding (vertical sorting) - biggest sediments on the bottom |  |
| <ol style="list-style-type: none"> 11. Horizontal sorting – large particles settle out first (stream slows down when entering a larger body of water) |  |

| | |
|--|--|
| <p>12. Glacial sediments are unsorted, scratched, U shaped valley, and can carry boulders</p> <p>13. Stream deposits are sorted, round, smooth, V shaped valley (abrasion)</p> |  |
| <p>14. We can tell what type of erosion moves sediment by examining its features.</p> |  |
| <p>15. Wind erosion blowing from the right.</p> |  |
| <p>16. Delta formation (alluvial fan)</p> |  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Stage 1 Stage 2 Stage 3 </div> |

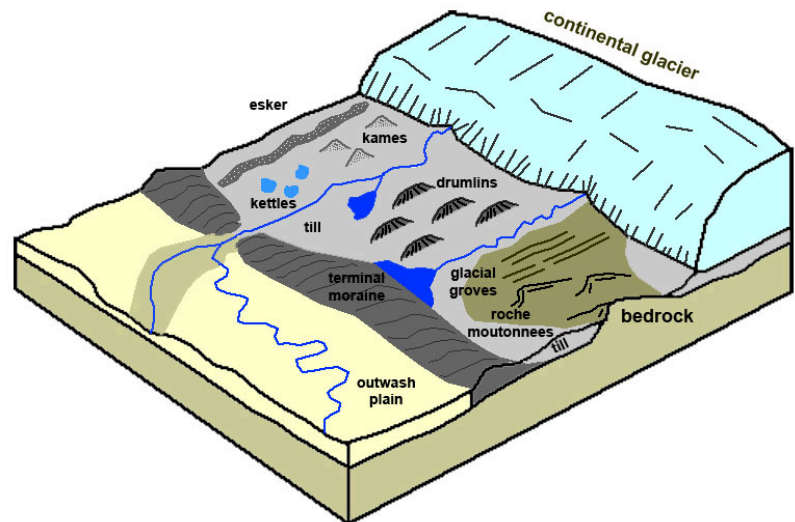
17. Barrier Island - Ocean Current Erosion



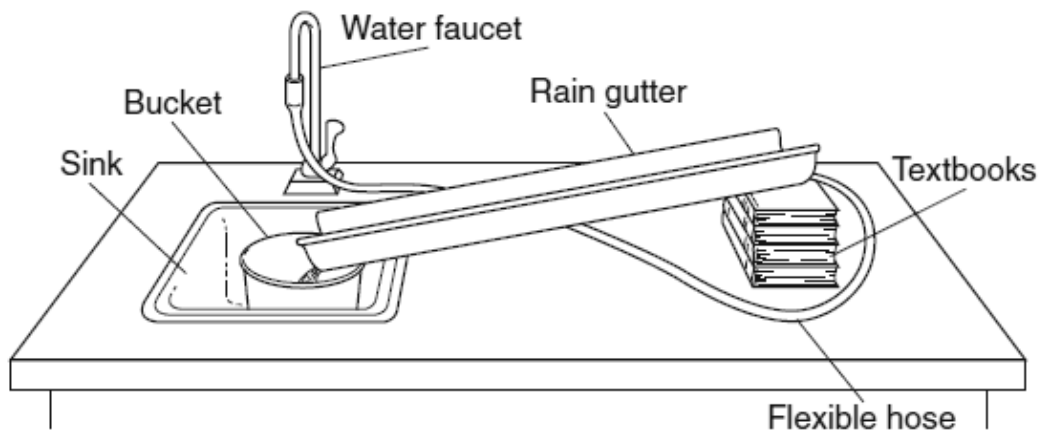
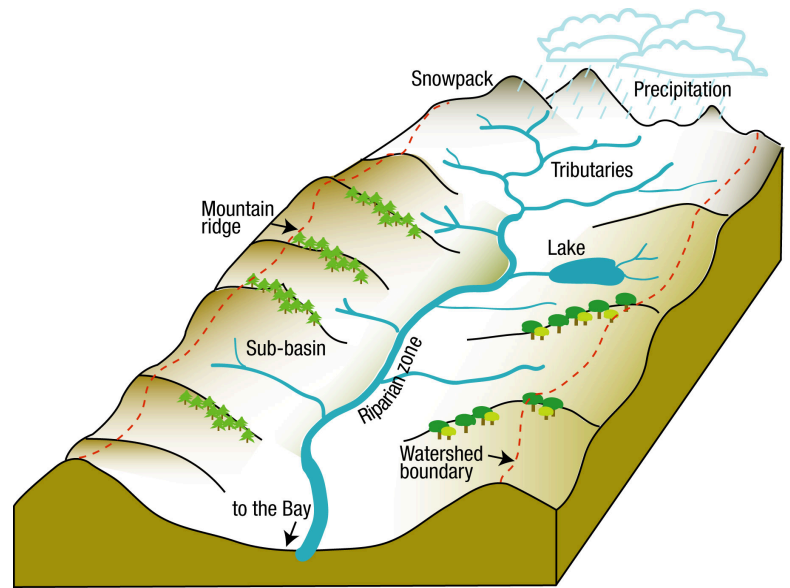
18. Oxbow Lake - Stream Erosion Phenomena
19. "X" - Floodplain



20. Know your glacial depositional features.



21. Watershed - area of land drained by a stream or river system.



Data Table

| Rain Gutter Slope | Water Velocity | Erosion Time (s) | |
|-------------------|----------------|------------------|-------------|
| | | Fine Sand | Coarse Sand |
| 5° | slow | 20 | 60 |
| | fast | 15 | 40 |
| 10° | slow | 15 | 40 |
| | fast | 10 | 30 |
| 20° | slow | 10 | 30 |
| | fast | 5 | 15 |