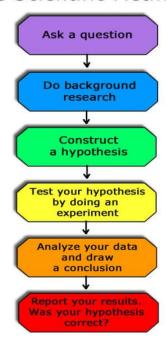
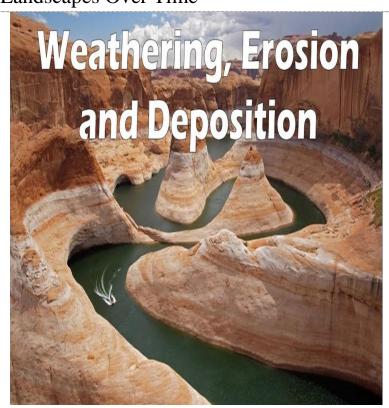
Name: Gra 4 Secti

Subject: Science Scientific TRI# 2

Lessons: Unit 3 L3: Changes in Landscapes Over Time



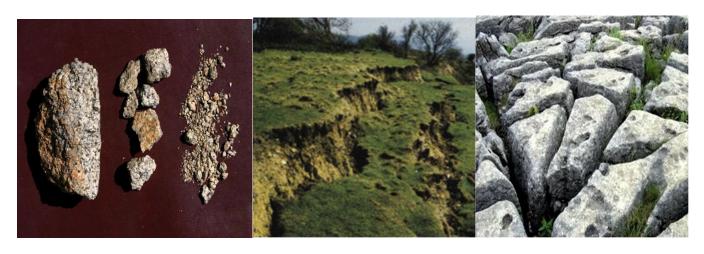




- 1. The slow process that breaks down rocks into small pieces is called weathering
- 2. There are two main kinds of weathering which are physical weathering and chemical weathering
- 3. The process that breaks down rocks into small pieces without change its chemical properties is called physical weathering.

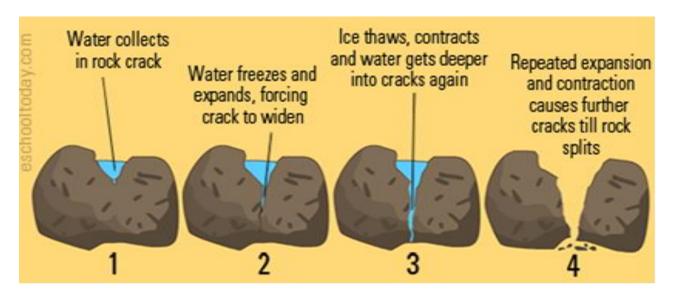
4. *Factors of physical weathering are:

a-Abrasion b-Freezing of water c- Gravity d- Wind e-glaciers f-running water g-plants and animals





5. Abrasion is a type of physical weathering happens by wind and water when rocks crashing together



6. Freezing of water inside the cracks causes physical weathering as its volume increases.



7. The action of living things as growing plants roots and animal burrowing cause physical weathering.



8. Gravity causes materials and rocks to fall down, damage and move.

- 9. The process that breaks down rocks into small pieces and changes its minerals or chemical structure (new substance) is called chemical weathering.
- 10. Factors of chemical weathering are:

a-Acidic rains, b-plants roots, lichens c- (oxidation) rusting of minerals cause chemical weathering

- 11. Acidic rains can breakdown rocks causing chemical weathering.
- 12. Plants roots and lichens produce acids that cause chemical weathering.

Living Organisms

 Lichens that grow on rocks produce weak acids that chemically weather rock









13. Mineral combine with oxygen to form rust (oxidation)that make the rocks soft causing chemical weathering

- 14. The movement of weathered materials from place to another is called erosion .
- 15. The process of dropping off the eroded materials in another place is called deposition.
- 16. Erosion and deposition occur by gravity, running water, wind and glaciers.
 - *Fast moving water or wind has more energy and cause erosion.
 - *Deposition occur when the speed decreases (less energy).



- 17. As water runs downhill, it can carry away soil and erode rocks.
- 18. Fast moving water has more energy and carries sediments.



19. The sediments carried by the <mark>rivers</mark> are <mark>deposited</mark> to form a landform called delta.



20. The strong wind carries sand and particles causes erosion, sand dune is a deposit of windblown sand. (deposition).





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21. Glaciers form where snow collects and erode solid rocks.



- 22. At shorelines water waves can break solid rocks and move sand to deposit them.
- 23. The beach is any area of shoreline made of materials (sand) deposited by water waves.



24. Over cutting trees and spare(cut) vegetation cause land to erode at a faster rate.









24. Strategies that can help conserve soil are, wind breaks, breakwaters, vegetation, terracing and strip farming

Choose the correct answer:

1. Wind cannot cause abrasion.
A-True.
B- False
2. Many animals and plant's roots can split the rocks into pieces.
A-True.
B- False
3. Lichens and plant's roots cause chemical weathering of rocks.
A-True.
B- False.
4. Fast moving water has less energy and cannot erode the rocks.
A-True.
B- False.
5. Factors such as heavy rainfalls and sparse vegetation can cause land to erode.
A-True.
B- False
6. As the water moves, they can tear and erode the solid rocks.

A-True.
B- False.
8. A sand dune is a deposit of windblown sand.
A-True.
B- False.
9 The cross section below shows sedimentary bedrock layers A, B, C, and D exposed at Earth's surface.
B C D

7. The sediments carried by the rivers are deposited into a landform called......

10. Terraces and strip farming are strategies to reduce soil erosion.

Which layer appears to be the least resistant to

(4) D

A-True.

weathering?

(1) A (2) B

B- False.