

**Sixth Grade Science**  
**Unit 7 Study Guide**

Name \_\_\_\_\_

1. The surfaces of old concrete statues are often covered with small holes or pits. What causes this to happen?
  
2. What human activities can increase the rate of weathering?
  
3. What human activities can help prevent soil erosion?
  
4. The dropping of sediments in a new place is called \_\_\_\_\_.
  
5. Over time, a rocky cliff will become many smaller rocks and eventually sand particles. This is due to which process?
  
- 6a. Glaciers cause weathering and erosion. What are glaciers?
  
- b. What type of land formation do glaciers form?
  
7. What is erosion?
  
8. The formation of soil is primarily the result of which two processes?
  
9. Barrier Islands are formed by \_\_\_\_\_.

10. Fill out the table below using the word bank.

Word bank:

- ice wedging
- abrasion by sand
- rocks tumbling in a river
- oxidation or rusting
- smaller pieces
- break down rocks
- acid rain
- changes composition
- rocks tumbling down a hill and breaking

	Mechanical	Chemical
Similarities		
Differences		
Water		
Wind		
Ice		Does not break down chemically.
Gravity		Does not break down chemically.

11. A farmer is growing crops on a mountain in North Georgia. She notices that the soil and seeds erode downhill after every rainfall. Which would be the best soil conservation technique to use, and why?
  
12. What is the most **important** agent of chemical weathering to form a cave and why?
  
13. Soil formation begins with the weathering of \_\_\_\_\_.

14. Sand dunes can be created over time from sand. Which agent of erosion most likely moves sand to create sand dunes?

15. A student hiking in a rocky area on a mountain notices that wide, deep cracks have formed in some of the large rocks. Some of the cracks are so large that the rocks have broken apart. Which process most likely caused these rocks to crack and break?

16. Describe bedrock.

17. During the early 1930's, the "Dust Bowl" destroyed many farms. What was the main cause?

18. The size and shape of a barrier island can change over time. Put an X by the items below that would affect the size and shape of a barrier island.

- The number of people who visit the mainland
- The number and height of tides along the shore
- The amount and size of sediments carried by the nearby rivers and streams
- The amount of hunting and fishing in the delta
- The number and size of waves from the ocean that reach the shore
- The bird species who live on the island

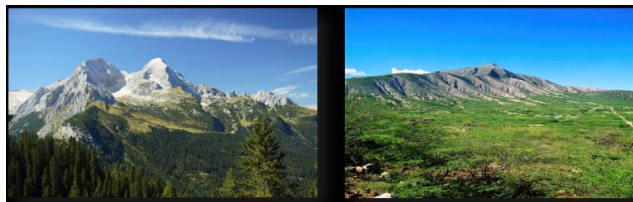
19. The decayed organic material in soil is called \_\_\_\_\_.

20. Soil is a mixture of what materials?

21.

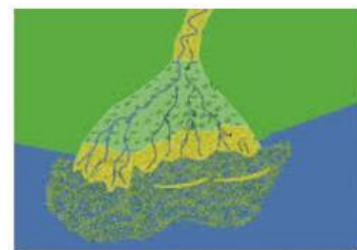
(Rocky Mountains)

(Appalachian Mountains "back east")



When Joe saw the Rocky Mountains for the first time, he exclaimed, "These mountains are much younger than ours back East!" Looking at the picture, which feature of the mountains supports his conclusion that the Rockies were relatively young mountains?

22. A type of landform shown is at the mouth of the Mississippi River. What is the landform called?



\_\_\_\_\_

23. Gravity is another force that contributes to erosion and weathering, especially when combined with slope. What could happen when gravity causes weathering and erosion?

24. Which agent of weathering and erosion is most likely responsible for shaping the Grand Canyon?

25. It is the rainy season! Rivers are more muddy-looking during storms. Why does this happen? (Choose from the list below)

- Fast-moving water can pick up, suspend, and move larger particles more easily than slow-moving waters
- There is more water in the rivers that is moving swiftly
- During a storm, a river is carrying a lot more sediment than during a low-flow period
- Sediment builds up at on the river bottom and the river looks muddy