

# Weathering, Erosion, and Deposition Webquest and Study Guide

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_

## Part 1: Weathering vs. Erosion vs. Deposition

1. Go to the following website: <http://science.howstuffworks.com/environmental/earth/geology/landslide2.htm>
2. Define weathering: \_\_\_\_\_.
3. CLEARLY explain how **weathering** is different from **erosion**:  
\_\_\_\_\_  
\_\_\_\_\_
4. List the two types of weathering and list all examples. Be complete, you may use the textbook as well.
  - a) \_\_\_\_\_.
  - b) \_\_\_\_\_.
5. Define **deposition**: \_\_\_\_\_.

## Part 2: Grand Canyon

6. Go to the following link and click "View" to watch a short video for how the Grand Canyon was formed: <http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.canyon/> Summarize its formation process.  
\_\_\_\_\_  
\_\_\_\_\_

## Part 3: BrainPop- Erosion Video

7. Go to the following website: <http://www.brainpop.com/science/earthsystem/erosion/> (Login: Vesbrainpop PW: bluebird)
8. Feel free to pause and rewind the video to complete the table below:

4 main causes of Erosion	Describe this process	Land features formed as a result?

Take the "Graded Quiz" once the video is over. Write the correct answers to each question below:

- 1) What type of changes does erosion cause? \_\_\_\_\_
- 2) Erosion occurs when natural forces alter a landscape. What does it mean to alter a landscape?  
\_\_\_\_\_
- 3) Which term best describes the rate at which glacial erosion takes place? \_\_\_\_\_
- 4) What is the usual result when the ocean breaks pebbles into smaller and smaller pieces? \_\_\_\_\_
- 5) Which of the following features would be most affected by weathering? \_\_\_\_\_
- 6) How would a sandblasted rock differ from a rock that hasn't been sandblasted? \_\_\_\_\_  
\_\_\_\_\_
- 7) Why is it hard to see glacial erosion in action? \_\_\_\_\_
- 8) What do floodplains, sandbars and river deltas have in common? \_\_\_\_\_
- 9) Based on the information in the movie, what would be a simple way to prevent erosion? \_\_\_\_\_
- 10) Based on the information in the movie, what can you infer about the type of erosion that formed the Grand Canyon? \_\_\_\_\_

*How did you score?* \_\_\_\_\_

**Part 4: Minerals**

11. What is the five part definition for an object to be considered a mineral?

- a)
- b)
- c)
- d)
- e)

12. Name seven characteristics that can be used to describe minerals:

- a)
- b)
- c)
- d)
- e)
- f)
- g)

**Directions:** Define the three terms, then write the phrases on the back in the corresponding column.

**Weathering:**

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**Erosion:**

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**Deposition:**

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Write the following phrases into the correct column on the previous page.

- A mudslide flowing down a steep hill.
- Waves dropping sand on the beach.
- Muddy water being carried away by a fast moving river.
- Layers of sediment forming at the bottom of the ocean.
- Rain washing away soil from a hillside.
- Water getting into cracks, freezing and breaking the rocks apart.
- Flood water pounding against a canyon wall and wearing it down.
- Landforms called deltas that form where rivers flow into other bodies of water such as a sea.
- Wind blowing rocks together forming smaller rocks.
- Wind blowing sand from one location to another.
- Glaciers scraping rocks across the Earth's surface.
- Glaciers that drop rock, sand, and other debris forming landforms called moraines.