

# Sedimentary Rocks

## Chapter 7

**S**edimentary rocks are part of the rock cycle and are a large family of rocks. The term sedimentary comes from the Latin word *sedere*, which means to settle. Ninety-five percent of the rocks in the Earth's crust are igneous and metamorphic rocks. Approximately 75% of these rocks are covered with a thin layer of sedimentary rocks.



The Grand Canyon  
USGS

### The Grand Canyon

The Grand Canyon gives geologists a key to knowing what Earth was like in the past.

The 1500 m of sedimentary rock layers exposed in the Grand Canyon give us clues about the history of the North American continent.

The oldest layers are on the bottom and the newest layers are on top. The layers are an almost continuous record of rocks that formed in this area since the North American continent formed.

# Sedimentary Rocks

## Quiz 7

### Fill in the blanks using words from the Word Bank

1. The \_\_\_\_\_ of the North American continent is exposed in the layers of the Grand Canyon.
2. Layers of coal are \_\_\_\_\_ indicating a swamp or bog flourished at the time the coal formed.
3. Bits and pieces of plant and \_\_\_\_\_ remains create organic rocks.
4. Sandstone, greywacke, shale, and \_\_\_\_\_ are examples of clastic sedimentary rocks.
5. There are three major \_\_\_\_\_ of sedimentary rocks.
6. Index \_\_\_\_\_ indicate to a scientist when a sequence of rocks was laid down in the past.
7. \_\_\_\_\_ sedimentary rocks are made from broken bits and pieces of older rocks.
8. Sedimentary rocks are visible where a river cuts down through layers of the rock or in \_\_\_\_\_.
9. Cross-bedding develops when \_\_\_\_\_ deposit layers of sand on a slope.
10. Many different minerals are \_\_\_\_\_ in lake water and seawater.

### Word Bank

road cuts	groups	clastic	carbonized	history
animal	fossils	dissolved	mudstone	winds

# Petroglyphs & Pictographs

## Activity 7

### Introduction

Ancient people carved rocks and drew pictures on rocks and cave walls for thousands of years. Pictures carved in rocks are petroglyphs. Pictures painted on rocks are pictographs.



Cave painting, Lascaux, France, 15,000 to 10,000 B.C.

Stone age cave painting created 15,000- 10,000 B.C.



Hawaiian petroglyphs

### Materials

- ◆ Measuring cup
- Flour
- Salt
- Water
- Paint brushes

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