

Sedimentary Rocks



Circle the letter next to the best answer for each question.

Worksheet Resources:
 - **Google Earth** - Open the 2. Exploring Geology Using Geotours > F. Sedimentary Rocks folder.

1. **Problem Materials** - Check and double-click items associated with each problem to travel to the appropriate location with the prescribed perspective/zoom.

2. **Sedimentary Rocks Geotours Library** - Explore additional Geotours in this folder to help answer problems.

- **Geoscience** - Consult a textbook and/or Internet resources to help answer some problems.

The Grand Canyon is a marvelous place to study geology. Here, **weathering** and **erosion** by the Colorado River have revealed an immense span of time as recorded in the rock record. Turn on the Grand Canyon Geologic Map overlay and make it semi-transparent (Note: This overlay is 4 MB and takes time to be downloaded into Google Earth's memory cache. Slight mismatches exist because the map is draped over topography). In this worksheet, we're going to focus on the **cover sequence** of sedimentary rocks that were deposited on top of the older metamorphic and igneous **basement** rocks.

1. **Erosion - Grand Canyon National Park (NP), AZ.** In order to get a sense of **horizontal scale** of this erosional exposure of sedimentary rocks, use the **Ruler** tool to determine the distance (in km) between the North and South Rims between the Problem 1 placemarks.
 - a. 14-16 km
 - b. 4-7 km
 - c. 22-25 km
 - d. 30-33 km
2. **Erosion - Grand Canyon NP, AZ.** To get a sense of erosional **relief** in this same area, hover the hand cursor over each Problem 2 placemark and find the relief (m) by subtracting the elevations shown at the bottom of the screen in the **Information Bar**.
 - a. 2310-2340 m
 - b. 1400-1425 m
 - c. 975-1000 m
 - d. 3020-3050 m
3. **Differential Weathering - Grand Canyon NP, AZ.** To identify the boundary between the sedimentary **cover** rocks (above) and the igneous and metamorphic **basement** rocks (below), turn on Problem 3 placemarks to delineate the steep and narrow Inner Gorge adjacent to the Colorado River. Which of the following statements is **incorrect**?
 - a. crystalline metamorphic & igneous basement rocks are located in the Inner Gorge
 - b. the Inner Gorge is ~0.5-0.7 km wide here
 - c. sedimentary cover rocks all weather to form uniformly similar slopes
 - d. sedimentary cover rocks more easily weather to form the wider parts of the canyon
4. **Differential Weathering - Grand Canyon NP, AZ.** Locate the Redwall Limestone (Mr) highlighted by the Problem 4 placemark. What kind of slope does it form?
 - a. steep cliff
 - b. gentle slope

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Wenbin Ji

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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