

Earth Systems and Processes

Unit 1 Review



Chapter 1

Introduction to Earth Science

The BIG Idea

Sunlight provides energy for many processes on Earth's surface that affect the land, air, water, and living things.

- What skills do scientists use to learn about the world?
- How is energy transferred in the Earth system?
- What does the topography of an area include?



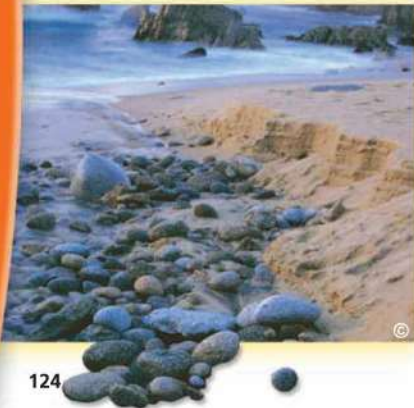
Chapter 2

Weathering and Soil

The BIG Idea

The weathering of rock helps to reshape Earth's topography and form soil.

- What are the three major groups of rock, and how do they form through the rock cycle?
- How do weathering and erosion affect Earth's surface?
- What is soil made of, and how does it form?
- Why is soil a valuable resource?



Chapter 3

Erosion and Deposition

The BIG Idea

Moving water, wind, and ice are forces that shape our landscape.

- What processes wear down and build up Earth's surface?
- What features are formed by water erosion and deposition?
- How do glaciers cause erosion and deposition?

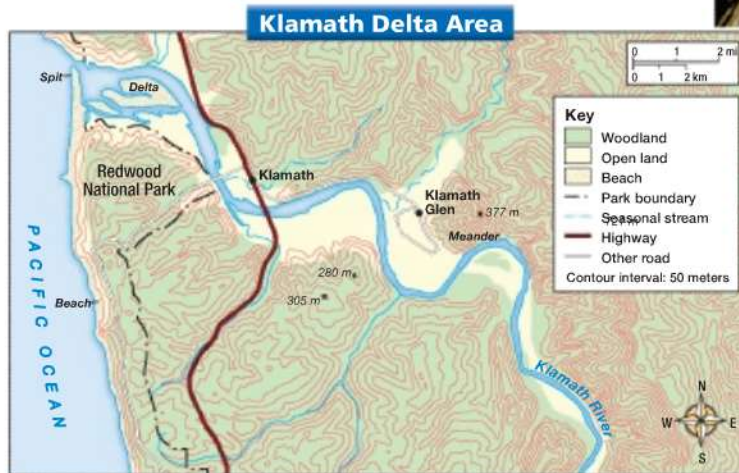
Unit 1 Assessment



Connecting the BIG Ideas

Thank you for choosing the Rivers and Redwoods Tour! We hope you enjoy your visit to the Klamath River. The river reaches the ocean in Redwood National Park, where the giant coast redwoods and many other plants thrive in the rich soil. Water from the river and ocean cycles back into the atmosphere, bringing moisture to the trees.

As you can see from the map below, our trip to the river's mouth will pass several interesting geologic features. These features include a large meander, a delta made up of several islands, a spit, and a long ocean beach.



HINT

1. What provides the energy for water to move from the river and ocean to the atmosphere? (*Chapter 1*)

- a. gravity
- b. sunlight
- c. condensation
- d. Earth's interior

HINT

2. What process contributes to the formation of soil in Redwood National Park? (*Chapter 2*)

- a. creep
- b. slump
- c. weathering
- d. widening

3. What formed the delta of the Klamath River, shown in yellow on the map? (*Chapter 3*)

- a. deposition
- b. mudflow
- c. longshore drift
- d. abrasion

HINT

4. **Summary** Write a paragraph that describes a trip down the Klamath River. Describe the features of erosion and deposition that you would see on your trip and explain how they formed.