

Student Exploration: River Erosion

Vocabulary: cutbank, discharge, erosion, flood, floodplain, meander, meandering river, oxbow lake, point bar, river speed, sediments, slope, streambank, streambed, tributary, weathering



Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. The image above shows a raging mountain river in full flood. What do you think is making the water brown in color? the sediment it is picking up from the floodbank

2. What impact do you think the flooding river will have on the surrounding landscape? The flood will change the landscape by creating new landforms and changing the local ecology.

Gizmo Warm-up

If you stand by the bank of a river, it may seem that very little is happening. But over thousands and even millions of years, rivers can have a profound effect on the landscape. In the *River Erosion* Gizmo, you will see how rivers move materials and how they affect landscapes.



To begin, check that **Mountain stream** and **Short-term erosion** are selected. The Gizmo shows a typical stream that is moving through a hilly area.

1. The two movie cameras (■) allow you to observe different parts of the stream up close.

Click on the left movie camera. What do you see? Large rocks in the streambed, pebbles, the water moving

2. **Sediments** are small rock fragments such as sand or pebbles. What evidence do you see that sediments are being transported? Small rocks are flowing with the current (water flow)

3. Now select the right movie camera to see the bank of the mountain stream. What is happening to sediments on the bank? Large rocks are moving and moving down, following the flow of the stream



Water Erosion Guided Answer Key

George Graybill

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University of Illinois at Urbana-Champaign. Vocational Agriculture Service,1994 [**Forces in Nature Author Jack L.**](#)

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