

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 water is brown because the sediments it is carrying
2. What impact do you think the flooding river will have on the surrounding landscape? The river will deteriorate or erode the riverbanks and deposit the sand over time.

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 (**1** and **2**) allow you to observe different parts of the stream up close.
Click on the left movie camera. What do you see? Large rocks on the streambed particles in the water and a fish ✓
2. **Sediments** are small rock fragments such as sand or pebbles. What evidence do you see that sediments are being transported? Sediments (particles) are flowing left to right with the current (white box) ✓
3. Now select the right movie camera to see the bank of the mountain stream. What is happening to sediments on the bank? The bank is eroding and sediments are falling into the stream ✓



Water Erosion Guided Answer Key

George Graybill

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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Language Power: Grades 6-8 Level A Teacher's Guide Ericka Davis Wien, 2012-10-30 **Language Power: Grades 6-8 Level B Teacher's Guide** Elizabeth C. McNally, 2012-10-30 *Water Conservation Teacher's Resource Guide CD* Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher's guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets **Study Guide for Modern Real Estate Practice** Fillmore Galaty, Wellington Allaway, Robert Kyle, 2002-10 **Hands-On - Earth & Space Science: Air and Water Gr. 1-5** George Graybill, 2017-01-01 This is the chapter slice Air and Water Gr 1 5 from the full lesson plan Hands On Earth Space Science Inspire your students to gain a deep understanding of our planet earth and beyond with our Hands On Earth Space Science resource for grades 1 5 Combining Science Technology Engineering Art and Math this resource aligns to the STEAM initiatives and Next Generation Science Standards Make your own weather forecast as a group Find out how much rain has fallen by building your own rain gauge Get a glimpse at how wind works by creating your own sand dunes Tell a story by drawing your own rock layer Get into groups to make your own solar cell windmill or water wheel Track the movement of the Moon with your own Lunar Calendar Each concept is paired with hands on experiments and comprehension activities to ensure your students are engaged and fully understand the concepts Reading passages graphic organizers before you read and assessment activities are included An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 Teacher's Manual and Resource Guide for Exploring the Sciences Herbert Drapkin, 1964 Instructional Materials University of Illinois at Urbana-Champaign. Vocational Agriculture Service, 1994 **Forces in Nature Author Jack L. Roberts**, 2010 Resources in Education, 1982 **Curriculum Guide in Conservation Education** Eugene Harold Herrington, Colorado. Department of Education, 1964 *Global Warming Teacher's Resource Guide CD* Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher's guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets Famine, Conflict, and Response Frederick C. Cuny, Richard B. Hill, 1999 A practical guide to underlying causes and immediate lasting solutions for famine Explains efficient use of resources in a crisis Written by a well known disaster relief practitioner and humanitarian Fred Cuny adopts an economic approach to wartime famine that is still considered innovative and challenging by field experts His international fieldwork in both natural and man made disasters is

visionary and his approach to famine pragmatic This book focuses on counter famine measures revolving around people s livelihoods giving humanitarian relief workers a more permanent solution to world hunger **A Guide for Desert and Dryland Restoration** David A. Bainbridge,2007-06-11 Publisher description *Guide to Hydrological Practices: Management of water resources and application of hydrological practices* ,2008 **Earth Science** ,2001 *Journal of Soil and Water Conservation* ,2013 Vol 25 no 1 contains the society s Lincoln Chapter s Resource conservation glossary New York Real Estate Exam Guide Judith Deickler,1989 **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Guide to Taxation, Public Finance and Related Literature** ,1976

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