

# Weathering, Erosion, and Deposition

Earth's surface is constantly changing and new land is constantly being formed! Rocks get *broken down* by **weathering**, *moved* through **erosion**, and *deposited*, or *dropped*, somewhere else through **deposition**.

**Weathering** is the process where rock is dissolved, worn away, or broken down into small pieces. Weathering can shape rocks into unusual formations. Water, wind, ice and plant roots are all causes of weathering. For example, rainwater can easily enter cracks in rocks. When it gets cold, the water may freeze and expand in the crack. The ice will eventually split the rock. Also, plant roots can grow in rocks and cause them to split.



**Erosion** is the process by which water, ice, wind, or gravity move pieces of rock and soil. The crushed rocks and rubble are called sediments and when it rains, they are washed away into streams. If it does not rain, strong winds can blow them away. Gravity makes soil and rocks move downhill. Erosion can happen quickly or take thousands of years. For

example, the Grand Canyon located in Arizona is a very big hole in the ground that is the result of constant erosion by the Colorado River. It took over millions of years as rocks were taken away.

**Deposition** is the dropping of sediment by wind, water, ice, or gravity. After pieces of the earth are moved through erosion, they are deposited somewhere else through deposition. It could be only a few feet away or many miles away. Deposition happens when water slows down or stops moving, the wind dies down or stops blowing, or when the glaciers melt. New landforms can also be created from the deposited material. For example, waves can deposit sediment in areas offshore, where they can build up to be sand dunes.



Weathering, erosion, and deposition are constantly changing our landscape. Can you imagine how most areas of our earth will look years from now?

# 3 Level Comprehension Guide Weathering

**Domenico Calcaterra, Mario Parise**



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**New Connections** Grant Westoby, 2003 A series of photocopiable activity files that provide opportunities to help develop active learning and critical thinking skills

**Weathering as a Predisposing Factor to Slope Movements** Domenico Calcaterra, Mario Parise, 2010 This volume is intended to provide an up to date overview of the approaches methodologies and techniques devoted to better understanding of the weathering conditions of rock masses on slopes According to the local conditions a variety of slope movements may take place and involve weathered rock masses Shallow and rapid soil slips evolving to debris flows are probably the most common type of slope movement At the same time deep seated intermittent landslides can also affect large volumes of weathered rocks and soils Despite the high frequency of landslides in weathered materials and the damage and casualties they repeatedly cause little is known about the relationship between weathering and slope movements This book presents worldwide case studies where a variety of geological and geomorphological settings are discussed The content is divided into three sections the first is devoted to broad aspects of the weathering landslide processes the second and third sections include papers dealing with igneous metamorphic and sedimentary weathered rocks respectively

**A Leader's Guide to Science Curriculum Topic Study** Susan Mundry, Page Keeley, Carolyn Landel, 2009-11-24 The Curriculum Topic Study CTS process funded by the US National Science Foundation helps teachers improve their practice by linking standards and research to content curriculum instruction and assessment Key to the core book Science Curriculum Topic Study this resource helps science professional development leaders and teacher educators understand the CTS approach and how to design lead and apply CTS in a variety of settings that support teachers as learners The authors provide everything needed to facilitate the CTS process including a solid foundation in the CTS framework multiple designs for half day and full day workshops professional learning communities and one on one instructional coaching facilitation group processing and materials management strategies and a CD ROM with handouts PowerPoint slides and templates By bringing CTS into schools and other professional development settings science leaders can enhance their teachers knowledge of content improve teaching practices and have a positive impact on student learning

**Science California, Level 2** Houghton Mifflin, 2007

**Study Guide** Stanley Chernicoff, 2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions

**Shipman Phys Sci 6e Study Guide** James T. Shipman, Jerry D. Wilson, 1990

**Resources in Education**, 1980

*Films and Other Materials for Projection* Library of Congress, 1978

**Glencoe Earth Science** Ralph M. Feather, 1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth's atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science

in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 *Frontiers of Earth Science* K.L. Shrivastava,P.K. Srivastava,2015-01-01 This book incorporate papers describing new and exciting results and timely reviews integrating an immense amount of knowledge in the field Frontiers of Earth Science the inter and intra disciplinary volume sets out to imbibe sixty selectively invited research papers from distinguished earth scientists The volume incorporate sections on Mineral deposits Climate Change and Environment Remote Sensing Stratigraphy and Palaeobiology Petrology Groundwater and Seismology and Tectonics The book is an everlasting and invaluable documents and reference for academia industry and planners specialized in the field of the Earth Science and for those who need updated information of current research The volume will also be equally significant for advance level students and research scholars throughout the world *GED Test Three* Robert Mitchell,1994 Provides test taking tips practice questions and sample tests **Library of Congress Catalogs** Library of Congress,1974 **Study Guide to Accompany Contemporary Physical Geology, Harold L. Levin** John A. Ciciarelli,1981 **Essential Invitation to Oceanography** Paul R. Pinet,2014 **Study Guide** Christopherson,2003-07 The study guide includes additional learning objectives a complete chapter outline critical thinking exercises problems and short essay work using actual figures from the text and a self test with answer key in the back *Scientific and Technical Aerospace Reports* ,1993 The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 The Complete Guide to TOEFL Bruce Rogers,1993 The instruction and practice in the Complete Guide to the TOEFL iBT closely mirrors the actual test helping students to master the skills necessary to achieve the best possible score on the TOEFL iBT test and prepare them for success in an academic setting **El-Hi Textbooks in Print** ,1977 **Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis

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