

Study Guide Answers for Rocks, Weathering, Erosion, and Rock Cycle Skills Assessment

A proficient student can describe how the different types of rocks are formed. They can explain the rock cycle, and they can contrast mechanical weathering, chemical weathering, and erosion.

1. How are rocks and minerals related?
 - a. Rocks are made of minerals
2. Name the 3 main types of rocks and explain how they are formed?
 - a. Igneous rocks-formed from the cooling of magma or lava
 - b. Sedimentary rocks-formed when particles of other rocks or the remains of plants and animals are pressed and cemented together
 - c. Metamorphic rocks-formed when heat, pressure or chemical reactions change rocks from one type to another
3. What is the difference between an intrusive igneous rock and an extrusive igneous rock?
 - a. Intrusive igneous rocks form when magma cools below Earth's surface
 - b. Extrusive igneous rocks form when lava cools on Earth's surface
4. Name and describe the steps that are necessary for a sedimentary rock to form.
 - a. Erosion-the sediment is removed by wind, water, ice or gravity
 - b. Deposition-the sediment particles settle out of the air or water and pile on top of each other
 - c. Compaction-the weight of the sediment particles piling on top of each other squeezes them together
 - d. Cementation-the mineral particles dissolve in water and the dissolved minerals mixed with the rock particles act as glue to bind the particles together
5. What is the difference between weathering and erosion?
 - a. Weathering is the process that breaks down rocks and other substances at Earth's surface
 - b. Erosion is the removal of rock particles by wind, water, ice and gravity
6. What is the difference between mechanical weathering and chemical weathering?
 - a. Mechanical weathering is the type of weathering where rocks are physically broken into smaller pieces
 - b. Chemical weathering is the process that breaks down rock through chemical changes
7. Name and describe the 5 forces that cause mechanical weathering.
 - a. Freezing and thawing-water seeps into cracks in rocks, freezes, expands, and acts like a wedge to push the rock apart
 - b. Release of Pressure-as erosion removes material from the rock's surface, the pressure on the rock goes down, and that release of pressure makes the outside of the rock crack and flake off
 - c. Animal Actions-burrowing animals loosen and break rocks apart in the soil
 - d. Plant Growth-roots of trees and plants enter the cracks in rocks, then as they grow, they force the cracks farther apart
 - e. Abrasion-Sand and other rock particles that are carried by wind, water or ice can wear away exposed rock surfaces like sandpaper rubbing against wood
8. Name and describe the 5 forces that cause chemical weathering.
 - a. Water Action-the most important cause of chemical weathering-dissolves rock
 - b. Oxygen-the oxygen in air combines with iron in rocks to form rust (oxidation) which makes rocks soft and crumbly
 - c. Carbon Dioxide-carbon dioxide gas air dissolves in rainwater to form carbonic acid, which weathers rocks
 - d. Living Organisms-Plant roots that grow into cracks in rocks produce weak acids that weather rocks

Rocks And Weathering Guided Study Guide Answers

Tao Wei



Rocks And Weathering Guided Study Guide Answers:

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 Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Picture-Perfect Science Lessons Karen Rohrich Ansberry, Emily Morgan, 2010 How do you improve upon perfection For years new and experienced elementary school teachers alike have extolled the virtues of Picture Perfect

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Field Trip Guidebook New York State Geological Association,2007 *Art-Union* ,1863 **The Art Journal** ,1863

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The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 **Trends** ,1968

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