

WEATHERING AND EROSION STUDY GUIDE

1. What are the two types of weathering? Define both.

The two types of weathering are mechanical and chemical. Mechanical weathering is the process by which rocks are broken down physically. Chemical weathering is the process by which rocks break down chemically.

2. What are the agents of mechanical and chemical weathering?

The agents of mechanical weathering are water, wind, abrasion, and living things such as plants and animals. The agents of chemical agents are acid precipitation, acid in ground water, oxidation, and acids in living things such as bacteria, lichen, fungi, and algae. [Water, oxygen, carbon dioxide, and acids]

3. How does ice wedging (frost action) break down rock?

Water seeps into cracks of rock during warm weather, freezes and expands during cold weather, and continues the cycle.

Frost Wedging



4. Explain how lichens break down rock.

Lichens attach to rocks. Weak acids produced by the plant begin to weaken the rock. As the rock is exposed to the weak acid, the rock weathers over time.

5. How do acids in ground water cause caves to form?

Weak acids (carbonic or sulfuric acids) in groundwater react with rocks (limestone) in the ground causing a chemical reaction to occur. Over a long period of time, the dissolving of the rock forms karst features such as caverns.

6. What is oxidation? Where does oxidation occur?

Oxidation is a chemical reaction where an element such as iron is exposed to air causing an oxide to form, such as rust. Oxidation more often occurs in warm, moist climates when left exposed for long periods of time.

Study Guide Weathering

Stanley Chernicoff

Study Guide Weathering:

Lecture and Study Guide for Physical Geology F. J. Leyden, 1967 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

Science California, Level 2 Houghton

Mifflin, 2007 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1968 *Physical Geography Today* Damian Nance, Brendan E. Murphy, 2016 This text presents a clear and conceptual understanding of how Earth works emphasizing the role of tectonic plates throughout Using clear focused and engaging prose the authors discuss connections between concepts processes and principles in a straightforward manner The text introduces themes using stunning overview graphics at the beginning of each chapter and features hundreds of meticulously developed figures throughout in order to illustrate ongoing processes and changes over time

Physical Geography Manual Nels August Bengtson, 1912 **Soils**

Khan Towhid Osman, 2012-12-04 Aimed at taking the mystery out of soil science Soils Principles Properties and Management is a text for undergraduate graduate students who study soil as a natural resource Written in a reader friendly style with a host of examples figures and tables the book leads the reader from the basics of soil science through to complex situations covering such topics as the origin development and classification of soil physical chemical and biological properties of soil water and nutrient management management of problem soils wetland soils and forest soils soil degradation Further the ecological and agrological functions of soil are emphasized in the context of food security biodiversity and climate change The interactions between the environment and soil management are highlighted Soil is viewed as an ecosystem itself and as a part of larger terrestrial ecosystems

Merrill Earth Science Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995

Resources in Education, 1980 **Mineral Solubilizing Microorganisms (MSM) and their Applications in Nutrient Bioavailability, Bioweathering and Bioremediation, Volume II** Muhammad Zahid Mumtaz, Maqshoof

Ahmad, Hassan Etesami, Adnan Mustafa, 2024-04-18 Bioweathering is the dissolution of rocks and mineral substrates carried out by microorganisms along with mechanical and chemical processes The application of bacteria in biomining is a biotechnological approach for the extraction and recovery of metals from ores Microbes interact with minerals as a strategy to colonize and exploit habitats where the environmental parameters disadvantage other microorganisms and they demonstrate the capacity to scavenge critical elements with low bioavailability such as iron and phosphorus There is an ongoing need to improve soil fertility and crop production particularly in dry places to remediate toxic soils and clean stone artworks and structures A more complete understanding of the ecology of mineral weathering processes mediated by the microbiome may provide a significant opportunity for researchers to develop novel solutions to developing challenges in agriculture the environment and industry

Instructors Resource Manual Robert W. Christopherson, 2003 **Science**

Interactions Robert W. Avakian,1995-07-17 **A Guide for Laboratory Geography Teaching** Oscar Diedrich Engeln,1913

Earth's Dynamic Systems William Kenneth Hamblin,Eric H. Christiansen,2001 The web site hosts a variety of review materials including maps images photographs and links to external sources of geological data and images The CD ROM includes high quality images videos animations narrated Chalk Talks and identification modules **Films and Other Materials**

for Projection Library of Congress,1973 **Prentice Hall Exploring Earth Science** ,1997 **Focus on Earth Science**

,2001 *Teacher's Manual to Accompany Frye's Geography* Alex Everett Frye,1896 **Teachers' Guide and Laboratory**

Exercises Grove Karl Gilbert,Albert Perry Brigham,1903 **Introductory Geography and Geology of Alaska** Leo Mark

Anthony,Arthur Tom Tunley,1976 Basic outline of physical geography of the state

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