

Mineral Identification Lab

Original Lesson by Marcella Welch

Focus on Inquiry

The student will use the physical properties of minerals to test and identify a group of minerals.

Lesson Overview

Students will review the physical properties that are used in identifying minerals (color, streak, cleavage or fracture, chemical properties, luster, etc.) They will then classify the minerals according to their properties.

Duration 80 min.	Setting Classroom	Grouping 3-4 students	PTI Inquiry Sub skills 3.3, 3.4, 3.7, 4.3, 5.2, 7.2, 7.3
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Lesson Components	Estimated Time	Inquiry Subskills Used	Technology Used	Level of Student Engagement	Brief Description
Engage	5-10 min.	3.7, 5.2	Projector or overhead may be used	2	Using pictures or samples of minerals the teacher will ask the students how are minerals identified.
Explore	40 min.	3.3, 3.4, 3.7, 4.3	Computer with Internet access	2,3	Students will test minerals for their physical properties in order to identify them.
Explain	15-20min.	4.3, 7.2, 7.3	None	3	Students will identify which properties were useful and not useful in identifying minerals.
Expand	10 min.	3.3	Computer with Internet access	3	Students will be challenged to identify a "mystery" mineral.
Evaluate	N/A	7.3	None	N/A	Teacher developed rubric for data collection and discussion.

Level of Student Engagement

1	Low	Listen to lecture, observe the teacher, individual reading, teacher demonstration, teacher-centered instruction
2	Moderate	Raise questions, lecture with discussion, record data, make predictions, technology interaction with assistance
3	High	Hands-on activity or inquiry, critique others, draw conclusions, make connections, problem-solve, student-centered

National Science Education Standards – Inquiry

Use appropriate tools and techniques to gather, analyze, and interpret data.
Develop descriptions, explanations, predictions, and models using evidence.
Think critically and logically to make the relationship between evidence and explanations.
Communicate scientific procedures and explanations.



National Science Education Standards – Earth Science

Some changes in the solid earth can be described as the "rock cycle." Old rocks at the earth's surface weather, forming sediments that are buried, then compacted, heated, and often recrystallized into new rock. Eventually, those new rocks may be brought to the surface by the forces that drive plate motions, and the rock cycle continues.

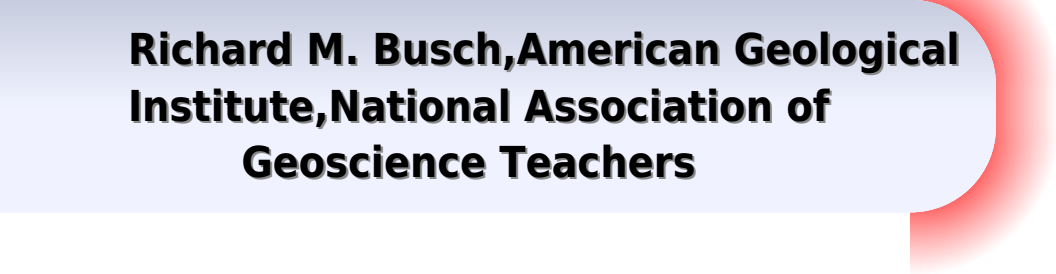
Louisiana Grade Level Expectations – Inquiry

- Gr. 8, Inquiry GLE#7 – Record observations using methods that complement investigations (e.g., journals, tables, charts) (SI-M-A3)
- Gr. 8, Inquiry GLE#12 – Use data and information gathered to develop an explanation of experimental results (SI-M-A4)
- Gr. 8, Inquiry GLE#13 – Identify patterns in data to explain natural events (SI-M-A4)
- Gr. 8, Inquiry GLE#19 – Communicate ideas in a variety of ways (e.g., symbols, illustrations, graphs, charts, spreadsheets, concept maps, oral and written reports, equations) (SI-M-A7)
- Gr. 8, Inquiry GLE#22 – Use evidence and observations to explain and communicate the results of investigations (SI-M-A7)



Louisiana Grade Level Expectations Earth Science

Physical Geology Lab Manual Mineral Identification



**Richard M. Busch, American Geological
Institute, National Association of
Geoscience Teachers**

Physical Geology Lab Manual Mineral Identification:

Physical Geology Laboratory Manual Richard C. Robinson, 2002-01-24 This Physical Geology lab manual is designed for a basic introductory physical geology laboratory Special emphasis is given to rock and mineral identification topographic maps and geology maps Some environment exercises are also included This lab manual has been successfully used at Santa Monica College for many years *Laboratory Manual for Physical Geology* Norris W. Jones, Charles E. Jones, 2005 If it is important for you to incorporate the scientific method into your teaching this lab manual is the perfect fit In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand The manual also includes In Greater Depth problems a more challenging probe into certain issues They are more quantitative in nature and require more in depth critical thinking which is unique to this type of manual **Physical**

Geology J. Bret Bennington, Charles Merguerian, 2003-05-30 The Sixth Edition of the Introductory Geology Lab Manual by J Bret Bennington and Charles Merguerian is being distributed by McGraw Hill Publishers The manual offers twelve integrated hands on laboratory modules with major emphasis on mineral and rock identification map reading and interpretation and earthquakes The manual features an appendix on the geology of the southern part of the New England Appalachians but could be easily customized for adoption in other regions of the country In a concise no frills and cost effective manner it covers the major topics in Physical Geology and is appropriate for both science and non science majors The manual's primary focus is basic and simple in that it employs methods of logical and inductive reasoning It has been rigorously tested for effectiveness at the undergraduate level over the past ten years the writing style is crisp and the graphics diagrams and tables are easy to read and understand This 185 page manual is priced inexpensively and has removable worksheets

Physical Geology Lab Manual and Note Book John Tomikel, 1966 Abstracts of North American Geology Geological Survey (U.S.), 1967-07 **Study Guide for Physical Geology, Geo 1001 (T451-W485)** Robert Evan Sloan, E. C. Alexander (Jr.), 1985 Laboratory Manual for Physical Geology James H. Zumberge, 1995 The new edition of this popular laboratory

manual continues to provide introductory lab exercises for students studying physical geology It incorporates exercises involving key areas in physical geology such as earth materials topographic maps aerial photographs structural geology and plate tectonics **Laboratory Manual in Physical Geology** Richard M. Busch, American Geological Institute, National Association of Geoscience Teachers, 2006 Revised throughout for enhanced clarity and accuracy and with a greater emphasis on the process of science this user friendly best selling laboratory manual examines the basic principles of geology and their applications to everyday life Students are encouraged to view these principles in terms of natural resources natural hazards and human risks This trusted resource features contributions from highly regarded geologists and geoscience educators with an exceptional illustration program by Dennis Tasa **Essentials of Physical Geology** Anatole Dolgoff, Mary Falcon, 1998

Elementary Geology Laboratory Manual Bowling Green State University. Department of Geology, 1971 **Applications**

of Physical Geology Principles: a Laboratory Manual Victor Viosca Cavaroc, P. D. Fullagar, J. J. Gryta, 1977 Problems & Principles in Physical Geology Joseph J. Romano, 1982 *Mineralogy and Optical Mineralogy* Melinda Darby Dyar, Mickey E. Gunter, 2008 **Laboratory Manual in Physical Geology** American Geological Institute, 1997 This Laboratory Manual in Physical Geology is a richly illustrated user friendly laboratory manual for teaching introductory geology and geoscience

STEM Labs for Earth & Space Science, Grades 6 - 8 Schyrlet Cameron, Carolyn Craig, 2017-01-03 STEM Labs for Earth and Space Science for sixth eighth grades provides 26 integrated labs that cover the topics of geology oceanography meteorology astronomy The integrated labs encourage students to apply scientific inquiry content knowledge and technological design STEM success requires creativity communication and collaboration Mark Twain's Earth and Space Science workbook for middle school explains STEM education concepts and provides materials for instruction and assessment Each lab incorporates the following components creativity teamwork communication critical thinking From supplemental books to classroom decor Mark Twain Media Publishing Company specializes in providing the very best products for middle grade and upper grade classrooms Designed by leading educators the product line covers a range of subjects including language arts fine arts government history social studies math science and character *Laboratory Manual for Physical Geology* James Herbert Zumberge, 1979 **EAS 220 Lab Book**, 2007 **Laboratory Manual for Physical Geology** Sheldon Judson, Margaret Skillman Woyski, 1966 **JNCHC**, 2000 *Journal of Geoscience Education*, 2005

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