

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	Setting	Grouping	PTI Inquiry Sub skills
80 min.	Classroom	3-4 students	3.3, 3.4, 3.7, 4.3, 5.2, 7.2, 7.3

Lesson Components	Estimated Time	Inquiry Subskills Used	Technology Used	Level of Student Engagement	Brief Description
Engago	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	э	Students will be challenged to identify a "mystery" mineral.
Evaluate	N/A	7.3	None	NoA	Teacher developed rubric for data collection and discussion.

Level of Student Engagement				
1 1	Land	Listen to lecture, observe the teacher, individual reading, teacher demonstration, teacher-centered instruction		
2	Moderate	Raise guestions, lecture with discussion, record data, make predictions, technology interaction with assistance		
3	History	Hands-on activity or inquiry, ortique 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.

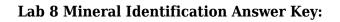
Louisiana Grade Level Expectations - Inquiry

- 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

Lab 8 Mineral Identification Answer Key

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Table of Contents Lab 8 Mineral Identification Answer Key

- 1. Understanding the eBook Lab 8 Mineral Identification Answer Key
 - The Rise of Digital Reading Lab 8 Mineral Identification Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Lab 8 Mineral Identification Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab 8 Mineral Identification Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lab 8 Mineral Identification Answer Key

- Personalized Recommendations
- Lab 8 Mineral Identification Answer Key User Reviews and Ratings
- Lab 8 Mineral Identification Answer Key and Bestseller Lists
- 5. Accessing Lab 8 Mineral Identification Answer Key Free and Paid eBooks
 - Lab 8 Mineral Identification Answer Key Public Domain eBooks
 - Lab 8 Mineral Identification Answer Key eBook Subscription Services
 - Lab 8 Mineral Identification Answer Key Budget-Friendly Options
- 6. Navigating Lab 8 Mineral Identification Answer Key eBook Formats
 - o ePub, PDF, MOBI, and More
 - Lab 8 Mineral Identification Answer Key Compatibility with Devices
 - Lab 8 Mineral Identification Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab 8 Mineral Identification Answer Key
 - Highlighting and Note-Taking Lab 8 Mineral Identification Answer Key
 - Interactive Elements Lab 8 Mineral Identification Answer Key
- 8. Staying Engaged with Lab 8 Mineral Identification Answer Key
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab 8 Mineral Identification Answer Key
- 9. Balancing eBooks and Physical Books Lab 8 Mineral Identification Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab 8 Mineral Identification Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lab 8 Mineral Identification Answer Key
 - Setting Reading Goals Lab 8 Mineral Identification Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab 8 Mineral Identification Answer Key

- Fact-Checking eBook Content of Lab 8 Mineral Identification Answer Key
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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