

The Study of Minerals

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Name _____

Date _____

Course/Section _____

Due Date _____

1. Name the physical property (hardness, color, streak, etc.) described by each of the following statements.

DESCRIPTION PHYSICAL PROPERTY

Breaks along smooth planes: _____

Scratches glass: _____

Shines like a metal: _____

Scratching produces a red powder: _____

Looks like broken glass: _____

2. What term is used to describe the shape of a mineral that has three directions of cleavage that intersect at 90-degree angles?

3. Describe the cleavage of the minerals listed below. Include the number of directions and degrees of cleavage angles (if appropriate).

MINERAL CLEAVAGE

Muscovite: _____

Calcite: _____

Halite: _____

Feldspar: _____

4. What physical feature most distinguishes biotite mica from muscovite mica?

5. Name a mineral that exhibits the physical properties listed below. (Use the photos in this exercise, if needed.)

PROPERTY MINERAL

One direction of cleavage: _____

Striations: _____

Multiple colors: _____

Cubic cleavage: _____

Nonmetallic, vitreous luster: _____

Fracture: _____

Metallic luster: _____

6. Figure 1.32 illustrates the common crystal form of the mineral fluorite and the characteristic shape of a cleaved sample of fluorite. Identify each specimen (A or B) next to its appropriate description below.

Crystal form of fluorite: _____

Cleavage specimen of fluorite: _____



Figure 1.32 Comparing crystal shape and cleavage.

7. Refer to the photo in Figure 1.33 to complete the following.

- a. Describe the crystal form (habit) of this specimen.
- b. What term is applied to the lines on this sample?

- c. Based on what you can determine from this photo, use the mineral identification key (see Figure 1.24) to identify this mineral.



Figure 1.33 Visually identifying mineral properties. (Photo by Dennis Tasa)

Minerals Study Guide Answers

Heping Xie



Minerals Study Guide Answers:

Study Guide for the Professional Licensure of Mining and Mineral Processing Engineers Society for Mining, Metallurgy, and Exploration (U.S.), 2008 This handy workbook prepares you for professional licensure and allows you to practice your test taking skills The text covers the history of professional licensure and the Mining and Minerals Processing exam explains what licensing can do for you outlines the engineering licensure process highlights the six steps to licensure covers application procedures includes Model Rules of Professional Conduct lists NCEES publications and describes the testing process A sample test complete with questions and answers is similar in content and format to an actual principles and practice PE licensure exam

Study Guide for the Professional Registration of Mining/Mineral Engineers Society for Mining, Metallurgy, and Exploration (U.S.). Professional Registration Committee, 1996 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 *Study Guide for Physical Geology, Geo 1001 (T451-W485)* Robert Evan Sloan, E. C. Alexander (Jr.), 1985 *Resources in Education*, 1980 **Computer**

Applications in the Mineral Industries Heping Xie, 2020-12-17 This text covers the use of computer applications in the mineral industries encompassing topics such as the use of computer visualization in mining systems and aspects such as ventilation and safety **Vitamins and Minerals Demystified** Steve Blake, 2007-10-16 Encapsulating the science behind vitamins and minerals Need to understand how vitamins and minerals work but find dense texts difficult to absorb Here's your panacea Vitamins Minerals Demystified makes it easy to digest information on everything from A to zinc Written by a holistic health doctor this essential guide explains the crucial role vitamins and minerals play in nutrition and physiology You'll find details on the type and amount required for survival and for increased disease resistance The book outlines the food sources of different vitamins and minerals and covers the benefits and pitfalls of both natural and synthetic vitamins Featuring end of chapter quizzes and a final exam this book will fortify your knowledge of vitamins and minerals This fast and easy guide offers Numerous figures to illustrate key concepts Graphs indicating the foods rich in various vitamins and minerals Charts featuring U S Recommended Daily Allowances USRDAs Coverage of deficiency related diseases Quick summaries of each vitamin and mineral reinforce learning Simple enough for a beginner but challenging enough for an advanced student Vitamins Minerals Demystified is the perfect supplement for anyone studying or interested in this important health topic *Glencoe Science* McGraw-Hill Staff, 2001-06 A Nature Study Guide William S. Furneaux, 1924

Adult-study Guide, 1937 School Education, 1894 **Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990 **Student Study Guide to Accompany Physical Geology** Charles C. Plummer, David McGeary, 1979 **Mines and Minerals**, 1891 **Guide to the Rocks and Minerals of Tasmania** Robert Mackenzie

Johnston,1888 *The Journal of Education* Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1897
Popular Educator ,1898 **Foundations of Earth Science Study Guide** Edward J. Tarbuck,2001-02-15 Includes
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