

# Chapter 1: Rocks and Minerals Study Guide

## Mineral

- Nonliving solid material that has a definite chemical makeup
- Found in the Earth's outermost layer- the crust
- You use minerals every day!
  - Windows, wires, sunscreen, toothpaste, and lots more

## Mohs Hardness Scale

- Is a list showing how hard minerals are
- Listed in order from softest to hardest
- Listed using numbers 1-10

## Properties of a mineral

**Luster:** the way a mineral shines, or reflects light.

- Metallic (looks like metal)
- nonmetallic (does not look like metal)
- shiny and dull

**Streak:** color of a mineral when it is ground into a powder. This is done by scrapping it across a ceramic tile.



**Hardness:** How easily a mineral is scratched. This can be done using a fingernail, penny, or nail. You could also check the hardness on the Mohs Hardness Scale.

**Cleavage:** When a mineral breaks on a flat surface.



**Color:** The color of a rock when you look at it.

# Nantel Study Guide Science Mineral

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## Nantel Study Guide Science Mineral:

Current Research in the Geological Sciences in Canada, May 1984-April 1985 Geological Survey of Canada, 1985 The present publication recording research in progress in Canada from May 1984 to April 1985 is the result of a survey conducted between January 1985 and March 1985 The research projects listed in this compilation are being undertaken mainly within federal and provincial departments and universities Data on industrial research was not received Publications are listed under the headings areal mapping environmental geoscience geochemistry geochronology geological computer applications geomathematics geomorphology geophysics geotechnique glaciology hydrogeology marine geoscience mineral energy geoscience mineralogy crystallography paleontology petrology quaternary geology remote sensing sedimentology stratigraphy structural geology and volcanology *Paper - Geological Survey of Canada, 1935* Paper -, 1935 Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Current Research in the Geological Sciences in Canada, May 1988-April 1989** Thomas Elwood Bolton, 1989 Record of research in progress in Canada from May 1988 to April 1989 based on a survey conducted from January-March 1989 The research projects listed are being undertaken mainly within federal and provincial departments and universities Abstracts are given for each listed report broadly categorized Coverage includes areal mapping 1:50 000 or more detailed by province areal mapping less detailed than 1:50 000 by province environmental geoscience geochronology geomathematics geomorphology geophysics geotechnique glaciology hydrogeology marine geoscience mineral energy geoscience mineralogy crystallography paleontology petrology quaternary geology remote sensing sedimentology stratigraphy structural geology and volcanology **CIM Bulletin** Canadian Institute of Mining and Metallurgy, Canadian Institute of Mining, Metallurgy and Petroleum, 1990 **Cumulated Index Medicus**, 1998 **The Indian Journal of Agricultural Sciences**, 2013-07 **Canadian Journal of Earth Sciences**, 1990 Canadian Geotechnical Journal, 2005 *12o Conferencia Panamericana de Mecánica de Suelos E Ingeniería Geotécnica, 39th U.S. Rock Mechanics Symposium, June 22-26th, 2003, Cambridge, Massachusetts, USA.* Patricia J. Culligan, Herbert H. Einstein, Andrew J. Whittle, 2003 *World Press Review*, 1982 **Surface Crown Pillar Evaluation for Active and Abandoned Metal Mines** Marc C. Bétournay, Canada Centre for Mineral and Energy Technology, 1989 Over the last few years surface crown pillar failures in active and abandoned mines gained the attention of the mining industry and civic officials The interest and research generated by these occurrences led to the realization that the subject of surface crown pillars is diverse and complex both in a geomechanical sense and a liability sense The problems mine operators face do not go away with time and may even worsen so that the subsequent encroachment by housing developments schools highways and railways may prove very risky This conference provided a forum for the discussion of the short and long term behaviour of surface crown pillars covering investigation of in situ conditions design methods and consequences and dealing with abandoned mines and cave ins *Das ostalpine Altkristallin der westlichen Lasörlinggruppe (Osttirol, Öster[r]reich)*

Robert Schönhofer,1999      **The Canadian Who's who** ,1988      *Bibliography of Agriculture with Subject Index* ,2000  
    **Yearbook of International Organizations** ,1967 Edition for 1983 84 published in 3 vols vol 1 Organization descriptions and index vol 2 International organization participation vol 3 Global action networks edition for 2012 2013 published in 5 vols vol 4 International organization bibliography and resources vol 4 Statistics visualizations patterns      **Resources: Minerals**  
University of Texas at Austin. Department of Geological Sciences,University of Texas at Austin. Science Education Center,1970      Minerals Science Learning Guide NewPath Learning,2014-03-01 Minerals Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts What is a Mineral Minerals vs Rocks Properties of Minerals Crystals How do Minerals Form Mineral Resources Mining and the Environment Use of Minerals and Identifying Minerals Aligned to Next Generation Science Standards NGSS and other state standards      **Manual of Mineralogy and Lithology** James Dwight Dana,1880

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