

Name: \_\_\_\_\_

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## **Rocks and Minerals Study Guide**

### **Minerals**

1. What are the five characteristics a material must possess in order to be considered a mineral?
  - a. Occurs naturally
  - b. solid
  - c. Definite chemical composition
  - d. Atoms in an orderly pattern
  - e. inorganic
2. What is a crystal and what determines the crystal shape?  
Regular geometric solid with smooth surfaces. A crystal will be large if the magma cools slower and has room to grow.
3. Can many different minerals form out of one magma mass? Yes.
4. Describe each of the characteristics observed/tested when identifying minerals. (How do you observe that characteristic, how useful is it, and the definition)
  - a. Color: the color is appears to the naked eye, least useful property
  - b. Streak: the color of the powder of the mineral
  - c. Hardness: how much the mineral resists scratching from common objects
  - d. Luster: how the mineral reflect light
  - e. Cleavage/Fracture: cleavage is when the mineral breaks with flat sides while fracture is irregular breakage
  - f. Special Properties: (examples) Acid test, magnetic, smell, taste, density
5. Name three minerals, their mineral group and their use in society.
  - a. Quartz-Silicate, used to make glass
  - b. Sulfur- native element, used in medicine and fertilizer
  - c. Gypsum- sulfate, used in wall board

### **Rocks Cycle**

1. What is the difference between rocks and minerals? Minerals make up rocks, some rocks are made of only one mineral.

# Nantel Study Guide Mineral Science

**Ontario Geological Survey**



## Nantel Study Guide Mineral Science:

Ontario Geological Survey Miscellaneous Paper Ontario Geological Survey, 1976      *Paper*, 1935      **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      *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70      *Dietary Reference Intakes* Institute of Medicine, 2006-09-29 Widely regarded as the classic reference work for the nutrition dietetic and allied health professions since its introduction in 1943 Recommended Dietary Allowances has been the accepted source in nutrient allowances for healthy people Responding to the expansion of scientific knowledge about the roles of nutrients in human health the Food and Nutrition Board of the Institute of Medicine in partnership with Health Canada has updated what used to be known as Recommended Dietary Allowances RDAs and renamed their new approach to these guidelines Dietary Reference Intakes DRIs Since 1998 the Institute of Medicine has issued eight exhaustive volumes of DRIs that offer quantitative estimates of nutrient intakes to be used for planning and assessing diets applicable to healthy individuals in the United States and Canada Now for the first time all eight volumes are summarized in one easy to use reference volume Dietary Reference Intakes The Essential Reference for Dietary Planning and Assessment Organized by nutrient for ready use this popular reference volume reviews the function of each nutrient in the human body food sources usual dietary intakes and effects of deficiencies and excessive intakes For each nutrient of food component information includes Estimated average requirement and its standard deviation by age and gender Recommended dietary allowance based on the estimated average requirement and deviation Adequate intake level where a recommended dietary allowance cannot be based on an estimated average requirement Tolerable upper intake levels above which risk of toxicity would increase Along with dietary reference values for the intakes of nutrients by Americans and Canadians this book presents recommendations for health maintenance and the reduction of chronic disease risk Also included is a Summary Table of Dietary Reference Intakes an updated practical summary of the recommendations In addition Dietary Reference Intakes The Essential Reference for Dietary Planning and Assessment provides information about Guiding principles for nutrition labeling and fortification Applications in dietary planning Proposed definition of dietary fiber A risk assessment model for establishing upper intake levels for nutrients Proposed definition and plan for review of dietary antioxidants and

related compounds Dietitians community nutritionists nutrition educators nutritionists working in government agencies and nutrition students at the postsecondary level as well as other health professionals will find Dietary Reference Intakes The Essential Reference for Dietary Planning and Assessment an invaluable resource      *Ontario Geological Survey Miscellaneous Paper* Ontario. Ministry of Natural Resources, Ontario Geological Survey, 1976      *CIM Bulletin* ,1995

**Paper - Geological Survey of Canada ,1935      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, Metallurgy and Petroleum, 1995      **Are Malawian Diets Changing? An assessment of nutrient consumption and dietary patterns using household-level evidence from 2010/11 and 2016/17** Gilbert, Rachel, Benson, Todd, Ecker, Olivier, 2019-12-16 This paper provides an updated analysis of the dietary patterns of Malawian households and their consumption of select nutrients calories protein iron vitamin A zinc and folate using data from the third 2010 11 and fourth 2016 17 rounds of the Malawi Integrated Household Survey IHS Changes in food and nutrient consumption patterns between the two survey periods are examined across household wealth categories and across regions Dietary diversity and patterns of food and nutrient consumption are found to differ significantly between rural and urban areas Whereas urban households largely saw slightly increased or stable nutrient consumption between 2010 11 and 2016 17 most households in rural areas saw declines over this period We also document small shifts in the relative amounts of foods consumed over this six year period in both rural and urban households with increased consumption of fish and pulses legumes and nuts and decreases in meat fruit dairy and root and tuber consumption The contribution of animal source foods as a share of total protein consumption remains low at between 10 and 20 percent depending on the region with the overall share of protein from animal source foods falling slightly between the two surveys With regards to adequacy of household diets for meeting nutrient requirements in the absence of nutrient supplementation many individuals will be subject to iron vitamin A and folate inadequacies Of particular concern the poorest households have very low nutrient consumption per person and have diets that rely on only a few foods from a small number of food groups For all six nutrients nationally just over half of the total amount of nutrient consumed came from food that was purchased While we would expect this for urban households even for rural households more than half of all calories and protein consumed came from foods that were purchased For

micronutrients consumed by rural households between 40 and 50 percent came from purchased foods While in the past own production of food may have provided most Malawian households with most of the nutrients they consumed this is no longer the case For most Malawian households including in rural communities their food security and dietary nutritional needs now are equally tied to the market as to their own farming if not more so Drawing lessons from the analysis here for improving the food consumption data collected in the IHS surveys more detailed and further disaggregated data would be beneficial particularly to help estimate nutrients derived from fortified and processed foods Additional information on how food is shared within households would also allow for a better understanding of nutrient inadequacies at the individual level Collecting more information on the content of the meals that household members eat away from home would also be helpful in removing some uncertainty in the nutrient consumption estimates made from the data Finally additional information on food gifts received could clarify aspects of household coping strategies the performance of formal social safety nets and food choice

*Alimentación, Nutrición Y Agricultura* ,2003 *Future Crops and Processing Technologies for Sustainability and Nutritional Security* Soumya Ranjan Purohit,Vasudha Sharma,Meena Kumari,Kasi Muthukumarappan,Joanna Kane-Potaka,2024-09-06 Our current food system faces challenges across the board from ensuring food security and reducing environmental impact to managing costs and minimizing waste Fortunately cutting edge food processing technologies play a critical role in paving the way for a more sustainable future Taking a two track approach *Future Crops and Processing Technologies for Sustainability and Nutritional Security* presents sustainable technologies and emerging crops that are capable of ensuring nutritional security There are various crops that are nutritious but under utilized Crops covered in the book are those that are climate resilient and exhibit less use of water and zero discharge to environment such as millets and legumes like chickpea groundnuts and pigeon pea

**KEY FEATURES** Provides a comprehensive literature review on the opportunities and challenges in achieving sustainability and nutritional security Presents compatible relevant crops to address both sustainability and nutritional security Discusses the emerging technologies crops food products to justify sustainability and potential to ensure nutritional security This book also provides information on all aspects related to the processing and use of sustainable technologies and crops The use of technologies like 3D printing novel drying method high pressure processing high voltage treatments and the proper combination of conventional methods are addressed

**Quarterly Bulletin of the Canadian Mining Institute** Canadian Institute of Mining and Metallurgy,Canadian Mining Institute,1971 **Annual Editions: Nutrition** Dorothy Klimis-Zacas,2006-04 This eighteenth edition of Annual Editions Nutrition provides convenient inexpensive access to current articles selected from the best of the public press Organizational features include an annotated listing of selected World Wide Web sites an annotated table of contents a topic guide a general introduction brief overviews for each section a topical index and an instructor s resource guide with testing materials Using Annual Editions in the Classroom is offered as a practical guide for instructors Annual Editions titles are supported by our

student website      **Current Research in the Geological Sciences in Canada** ,1982      **Current Research in the Geological Sciences in Canada, May 1982-April 1983** Thomas Edward Bolton,1983      Canadian Journal of Earth Sciences ,1995      *CIM/ICM Bulletin Technical Papers* Canadian Institute of Mining, Metallurgy and Petroleum,2006  
**Applied Science & Technology Index** ,1972

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