

# ROCKS AND MINERALS

## Minerals

- Minerals are naturally occurring substances formed by geological processes. They are usually solid and feature a crystal structure as well as specific physical properties and chemical composition.
- Physical properties of minerals include crystal structure, hardness (Mohs scale), lustre (how it reflects light) and color, as well as more complicated properties such as streak, fracture, cleavage and density.
- Mohs scale of hardness measures the ability of minerals to scratch each other. Talc is very soft and is listed as 1, diamond is very hard and is measured as 10.
- A mineral is sometimes made up of just one chemical element but more often it is a compound (mixture) of two or more.
- For example, diamond is made up of just carbon, while fluorite is made up of a compound of calcium and fluorine.
- There are over 4000 different types of minerals.
- Only around 30 of these are commonly found in the Earth's crust.
- Examples of minerals include calcite, gypsum, feldspar, pyrite, gold, quartz and diamond.
- The precious gems ruby and sapphire are varieties of the mineral corundum.

## Rocks

- Rocks and stones are naturally occurring solids made up of minerals.
- The Earth's crust is made up of rock.
- Rocks have been used by humans for millions of years, from early tools and weapons through to various construction materials.
- There are three different types of rocks based on the way they form, igneous, sedimentary and metamorphic.
- When magma cools and solidifies it forms igneous rock.
- Examples of igneous rocks include granite, basalt, gabbro, obsidian and pumice. More igneous rock facts.
- Sediment deposited over time, often as layers at the bottom of lakes and oceans, forms sedimentary rocks.
- Examples of sedimentary rocks include sandstone, mudstone, flint, greywacke and chalk. More sedimentary rock facts.
- Extreme pressure and heat over time forms metamorphic rocks.
- Examples of metamorphic rocks include marble, quartzite, schist, granulite and slate. More metamorphic rock facts.
- The metamorphic rock marble is formed from the sedimentary rock limestone.
- The metamorphic rock granulite is formed from the igneous rock basalt.

## EXAMPLE OF MINERALS

### The Silicates



**Amazonite**

is a beautiful green variety of microcline feldspar. Its chemical formula is  $\text{KAlSi}_3\text{O}_8$ , potassium aluminum silicate.



**Tanzanite**

is a variety of Zoisite. It is valued as a gem stone and has the chemical formula  $\text{Ca}_2\text{Al}_2\text{Si}_2\text{O}_{10}(\text{OH})$ .



**The Mica Group**

is the name given to a group of silicate minerals that have silicon and oxygen as their two major components.



**Muscovite**

is a member of the mica mineral group. It is more important as a rock-forming mineral than as a collectible specimen.



# Rocks And Minerals Speedy Study Guide

**RS Peters**



## **Rocks And Minerals Speedy Study Guide:**

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- 12 Achievements of Indians in science indigenization of technology and developing new technology
- 13 Awareness in the fields of IT Space Computers robotics nanotechnology biotechnology and issues relating to intellectual property rights
- 14 Conservation environmental pollution and degradation environmental impact assessment
- 15 Disaster and disaster management
- 16 Linkages between development and spread of extremism
- 17 Role of external state and non state actors in creating challenges to internal security
- 18 Challenges to internal security through communication networks the role of media and social networking sites in internal security challenges basics of cyber security money laundering and its prevention
- 19 Security challenges and their management in border areas linkages of organized crime with terrorism
- 20 Various Security forces and agencies and their mandate

**Topic Covered**

- 1 Challenges to Internal Security through Communication Networks
- 2 Money Laundering and Its Prevention
- 3 Role of Media and Social Networking Sites in Internal Security Challenges
- 4 Linkages of Organised Crime with Terrorism
- 5 Land reforms in India
- 6 Linkages between development and spread of extremism
- 7 Issues relating to intellectual property rights
- 8 Awareness in the fields of IT
- 9 Awareness in the

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## **Table of Contents Rocks And Minerals Speedy Study Guide**

1. Understanding the eBook Rocks And Minerals Speedy Study Guide
  - The Rise of Digital Reading Rocks And Minerals Speedy Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Rocks And Minerals Speedy Study Guide
  - 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 Rocks And Minerals Speedy Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rocks And Minerals Speedy Study Guide
  - Personalized Recommendations
  - Rocks And Minerals Speedy Study Guide User Reviews and Ratings
  - Rocks And Minerals Speedy Study Guide and Bestseller Lists
5. Accessing Rocks And Minerals Speedy Study Guide Free and Paid eBooks
  - Rocks And Minerals Speedy Study Guide Public Domain eBooks
  - Rocks And Minerals Speedy Study Guide eBook Subscription Services
  - Rocks And Minerals Speedy Study Guide Budget-Friendly Options
6. Navigating Rocks And Minerals Speedy Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Rocks And Minerals Speedy Study Guide Compatibility with Devices
- Rocks And Minerals Speedy Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rocks And Minerals Speedy Study Guide
  - Highlighting and Note-Taking Rocks And Minerals Speedy Study Guide
  - Interactive Elements Rocks And Minerals Speedy Study Guide
- 8. Staying Engaged with Rocks And Minerals Speedy Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rocks And Minerals Speedy Study Guide
- 9. Balancing eBooks and Physical Books Rocks And Minerals Speedy Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rocks And Minerals Speedy Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Rocks And Minerals Speedy Study Guide
  - Setting Reading Goals Rocks And Minerals Speedy Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rocks And Minerals Speedy Study Guide
  - Fact-Checking eBook Content of Rocks And Minerals Speedy Study Guide
  - 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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