

Minerals

Say Thanks to the Authors

Click <http://www.ck12.org/saythanks>

(No sign in required)



To access a customizable version of this book, as well as other interactive content, visit www.ck12.org

CK-12 Foundation is a non-profit organization with a mission to reduce the cost of textbook materials for the K-12 market both in the U.S. and worldwide. Using an open-source, collaborative, and web-based compilation model, CK-12 pioneers and promotes the creation and distribution of high-quality, adaptive online textbooks that can be mixed, modified and printed (i.e., the FlexBook® textbooks).

Copyright © 2016 CK-12 Foundation, www.ck12.org

The names “CK-12” and “CK12” and associated logos and the terms “**FlexBook®**” and “**FlexBook Platform®**” (collectively “CK-12 Marks”) are trademarks and service marks of CK-12 Foundation and are protected by federal, state, and international laws.

Any form of reproduction of this book in any format or medium, in whole or in sections must include the referral attribution link <http://www.ck12.org/saythanks> (placed in a visible location) in addition to the following terms.

Except as otherwise noted, all CK-12 Content (including CK-12 Curriculum Material) is made available to Users in accordance with the Creative Commons Attribution-Non-Commercial 3.0 Unported (CC BY-NC 3.0) License (<http://creativecommons.org/licenses/by-nc/3.0/>), as amended and updated by Creative Commons from time to time (the “CC License”), which is incorporated herein by this reference.

Complete terms can be found at <http://www.ck12.org/about/terms-of-use>.

Printed: March 29, 2016

flexbook
next generation textbooks



CHAPTER 1

Minerals

Lesson Quiz

Name _____ Class _____ Date _____

Multiple Choice

Circle the letter of the correct choice.

- Which of the following is the basic unit of matter?
 - molecule
 - chemical compound
 - atom
 - nucleus
- Water is an example of a(n)
 - atom
 - molecule
 - ion
 - native element
- An atom is only an ion if it has more or less
 - neutrons than electrons
 - protons than neutrons
 - neutrons than protons
 - electrons than protons
- An example of a pure element is
 - table salt
 - silicon dioxide
 - sulfur
 - calcium carbonate
- The crystal shape of a mineral
 - shows how the atoms are arranged
 - will always be the same if it is made from the same atoms
 - can usually only be seen under a microscope
 - can help account for how hard or brittle a mineral is

True or False

Write true if the statement is true or false if the statement is false.

- _____ 6. A molecule is the smallest unit of an element.
- _____ 7. Protons and electrons are found in the nucleus of an atom.
- _____ 8. Halides (salts) make up the largest group of minerals on Earth.
- _____ 9. Coal and diamonds are different minerals because they have different structure.

_____ 10. In a crystal, the atoms are arranged in a pattern.

Fill in the Blanks

Fill in the blank with the term that best completes the sentence.

11. 90% of Earth's crust is made of minerals in the group called a(n) _____.
12. The _____ makeup of a material is the different atoms and molecules that it is composed of.
13. Even though calcium carbonate is made by marine animals, it is still _____.
14. _____ is the substance of which physical objects are made.
15. Electrically neutral particles are called _____.

Short Answer

Answer each question in the space provided.

16. List and briefly describe the chemical composition of the eight groups of minerals.

17. What is a mineral?