



Summary

Summary: *Earth's Power: Volcanoes* introduces students to all things associated with volcanoes, such as what a volcano is, causes of eruptions, how eruptions affect people and the environment, and how scientists study volcanoes.

Vocabulary		Comprehension Strategy	Genre Study	Text Features	
core	magma	Summarizing main ideas, Using graphic features	Text structure: Description, Use of supporting details and embedded definitions	table of contents photographs captions index bold glossary words	headings diagram text boxes glossary
crust	mantle				
dormant	molten				
eruption	supervolcano				
extinction	tectonic				
plates					

Standards: Geography and Science

- Understands Earth composition and structure
- Knows that matter has many different states and that each state has distinct physical properties
- Understands the nature of scientific inquiry
- Knows the physical processes that shape patterns on Earth's surface
- Knows natural hazards that occur in the physical environment

Kendall, J. S., & Marzano, R. J. (2004). *Content knowledge: A compendium of standards and benchmarks for K-12 education*. Aurora, CO: Mid-continent Research for Education and Learning (McREL). Online database: www.mcrel.org/standards-benchmarks/

Discussion Prompts Prior to Independent Reading

Vocabulary Building and Background Knowledge:

Read the title as students look at the cover. Ask students to talk about what they observe on the cover and what they already know about volcanoes. Scaffold a discussion that builds on the background knowledge of students. Introduce students to the vocabulary words by having them look at the glossary on page 47.

Discussion questions:

- Read the definitions for *plates* and *tectonic*. How are the words related?
- What is the difference between a *dormant* volcano and one that is *extinct*?
- Where would you find the *core* and the *crust* of the Earth?

Genre Study and Text Features:

State that *Earth's Power: Volcanoes* is an informational text.

Ask students to look at the table of contents to determine how the information is organized. Then highlight genre characteristics and text features that will support students in reading the text.

- Look at pages 8 and 9. The main text is on page 8. Skim the text boxes and captions. What type of information is given? Do you think this information is stated in the text as well? Look through the rest of the book. Do you see other text boxes? When should you read the information in the captions and text boxes?
- Look at the diagram on page 10. Then read the text on page 11. Does the diagram help explain the text or help you visualize what the text is saying?

Reading the Book:

Have students read the book independently or with a partner.

Comprehension Questions

After students have completed reading *Earth's Power: Volcanoes* gather students together for a discussion based on the questions below or assign students to answer the questions independently or with a partner.

- What is a volcano? Give an example of a volcano named in the book.
- What is the difference between an active volcano and an erupting volcano?
- How does volcanic activity affect the lives of people who live near the volcano?

BLM: Extension Activity

Students may use the graphic organizer on the next page to give the name and location of three different volcanoes and then give examples of how each volcano has changed either the Earth's surface or surrounding community.



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Name: _____ Date: _____

Volcanoes and the Earth's Surface

Change

Directions: Use the graphic organizer to give the location and name of three specific volcanoes and then describe how the volcano changed the Earth's surface or surrounding community.

Name: _____

Location: _____

Name: _____

Location: _____

Name: _____

Location: _____