BRIDGES™

Earth: Fast Changes



Discover why volcanoes, earthquakes, and hurricanes happen and how they shape Earth

ERIN FRY

Benchmark EDUCATION

SCIENCE
What Changes Our Earth
Level 28 M

For teachers' inspection ONLY

READING

Comprehension Skill:

Cause and Effect

As you read, look for causes and effects. Be sure to look for clues, or words that help you determine cause-and-effect relationships.

Phonics/Word Study:

-er and **-or** endings

As you read, look for words with **-er** and **-or** endings that rhyme with **her**, like **weather** and **equator**.

SCIENCE

The Big Idea:

This book describes the fast changes that can occur on Earth. It explains how volcanoes, earthquakes, and hurricanes form, and the damage that each natural disaster can do to Earth and humans.

Look for these text and graphic features.

Text Features

- Table of contents
- Introduction
- Sidebars
- Conclusion
- Glossary
- Index
- Information about the author
- Vocabulary words in boldfaced type
- Captions for photos, diagrams, and illustrations
- Checkpoints. Check yourself to see that you understand what you have read. Pages 19, 28

Graphic Features

- Photographs
- Labeled diagrams. Pages 5, 7, 23
- Bar graph. Page 28
- Chart. Page 30
- Maps. Pages 8, 9, 12, 14, 22, 27
- Experiment. Pages 10–11

Look for these special information features.

Content Sidebars

- It's a Fact. Interesting facts about earthquakes, volcanoes, and hurricanes. Pages 7, 14, 17, 24
- Solve This. Solve these math problems to learn more about earthquakes, volcanoes, and hurricanes. Pages 12, 21, 28
- Everyday Science. See how science is part of your daily life. Page 26
- Careers in Science. Learn about jobs for people interested in earthquakes, volcanoes, and hurricanes. Page 16
- They Made a Difference. Meet a person who was important to the study of earthquakes. Page 8
- Primary Source Documents. Examine original documents from the past. Page 4

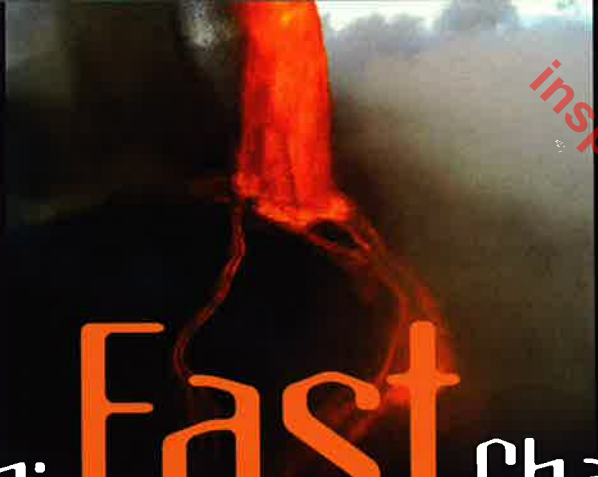
Content Vocabulary

earthquake	lava	monsoon	storm surge
eruption	magma	plate	tsunami
fault	magnitude	scale	volcano
hurricane			

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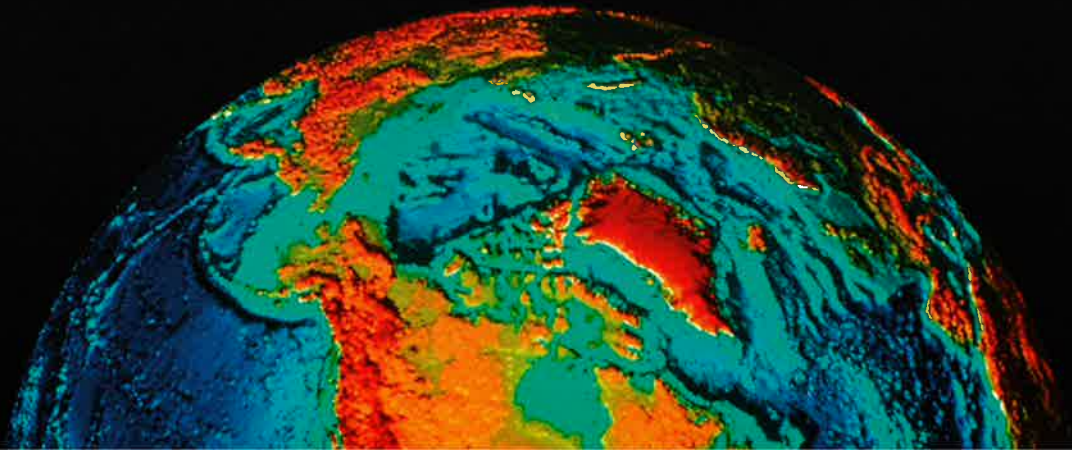
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Earth: Fast Changes

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by Erin Fry

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Pictures To Think About

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Words To Think About

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plate

What do you think the word **plate** means in this book?

Meaning 1
a round, flat dish for food (noun)

Meaning 2
a thin, flat piece of metal (noun)

Meaning 3
a section of Earth's crust (noun)

eruption

What do you think the word **eruption** means?

Latin:
ex
(out)

Latin:
rumpere
(to break, rupture)

Read for More Clues
eruption, page 2
magma, page 14
plate, page 5

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magma

What do you think the word **magma** means?

What is magma?

- red-hot
- ?
- liquid

Where can you find magma?

- below Earth's crust
- ?
- inside volcanoes



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Introduction

May 18, 1980. The sun is shining. The sky is clear. Then at 8:32 A.M., a **volcano** (vahl-KAY-noh) explodes. One side of the mountain is torn away. Hot **lava** (LAH-vuh) shoots out. Snow and ice on the mountain melt away. Many animals die.

This is Mount St. Helens. Its **eruption** (ih-RUP-shun) was the biggest ever in the United States.



