

Volcanoes: Fire Under the Surface

By Kelly McKee

Have you ever dropped a sealed bottle of soda and then tried to open it? The pressure inside the bottle combined with the carbonation of the soda makes it come shooting out of the opening, much like an erupting volcano.

A volcano is a mountain that opens inward to molten rock below the Earth's surface. This molten rock is also called magma, and it is found in the layer of Earth known as the mantle. The temperature in the mantle is extremely high. Because heat rises, the magma tries to find a way to rise to the Earth's surface. Since the magma is escaping from a small space, it releases a lot of energy. This energy can produce gas and dust, but it also causes pressure to build. The magma rises and shoots out the opening of the volcano, just like a soda that's been shaken.

Not all eruptions are the same. Some volcanoes erupt with lava, and others erupt with hot ash. This is because volcanoes come in different shapes and sizes.

Volcanoes can be very dangerous and can do a lot of damage. Volcanic eruptions have caused mudslides, avalanches, and floods. They can also trigger other things, like tsunamis, earthquakes, and rockfalls. In the United States, the most active volcanoes are in Alaska, Washington, Oregon, California, and Hawaii. In fact, the Hawaiian Islands were actually created by volcanoes under the ocean.

The location of volcanoes has to do with the surface of the Earth. The surface, or the crust, is broken up into large pieces called tectonic plates. Tectonic plates lie on top of the hot, liquid mantle. The mantle can flow and



Reading About Volcanoes

Anita Ganeri



Reading About Volcanoes:

Volcanoes! Eric Arnold,2013-10-30 A volcano could be called a sleeping mountain that is until it wakes up What is it like to witness the eruption of one of nature s majestic time bombs Young readers can learn what makes volcanoes tick and read about some of the most famous eruptions in history **My Best Book of Volcanoes** Simon Adams,2001 Volcanoes amaze and fascinate everyone and this book introduces the young reader to the dangerous and sometimes deadly world that we live in My Best Book of Volcanoes explores how volcanoes are formed from core to crust the different types of volcanoes and where they are in the world Volcanic eruptions are depicted in glorious colour artwork and the different types of lava and minerals that result described in detail Volcanoes under the sea crater lakes volcanic islands and volcanoes on other planets all combine to give a complete and authoritative picture of these awesome mountains How volcanoes can affect everyday lives is also explored with pages about vulcanologists the scientists who study volcanoes and predict volcanic eruptions and the ordinary people who live on the slopes beneath these brooding mountains *Reading Expeditions (Science: Earth Science): Volcanoes and Earthquakes* Kate Boehm Jerome,National Geographic Learning,2007-01-25 This series explores diverse topics builds core science concepts through texts designed to develop nonfiction reading skills *School Reading by Grades* James Baldwin,1897 **Volcanoes - Science - Paired Texts - Fiction to Nonfiction** Genia Stemper,2022-04-17 Reading Comprehension Science Fiction Nonfiction Pairing Volcanoes Supports Best Practices in Reading by Pairing Science Based Nonfiction Stories with Fiction Stories on the Same Topic Each exciting and fact filled story is accompanied by a dynamic colorful realistic illustration that brings the story to life and enhances the content The nonfiction story gives a detailed scientific explanation of the topic The matching fiction story makes the topic relatable to everyday life Reading Skills Follow up questions and activities help build important comprehension skills and strategies shared by and unique to nonfiction and fiction stories By reading the stories and completing the accompanying activities students will have a much greater understanding of these two key genres of reading Volcanoes The nonfiction story sets up the fiction story by giving the dramatic facts about what happens when a volcano erupts Last Day in Pompeii The fiction story tells about the day the ancient city of Pompeii was destroyed by a volcano through the voice of a young slave girl Questions Activities Each story is followed by who what when where why and how type questions Additional skill specific questions for each story include Main Idea Locating Information Fact or Opinion Sequencing Cause Effect Conclusion Inference Summarizing and Picture Interpretation Vocabulary activities include vocabulary matching word search and context Details Each short story is between 330 and 375 words and is written at a 2 9 to 4 4 reading level according to the Flesch Kincaid Readability Scale The interest level is grades 3 and up Contents Include 2 high interest illustrated short stories 10 pages of questions and activities Glossary Answer Key 18 total pages [Volcanoes of North America](#) Israel Cook Russell,1897 **Geographical reading books, ed. by F.W. Rudler** Longmans, Green and co,1883 **Volcanoes!** Cy Armour,2011-11-01 Discusses early beliefs

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web energy bar charts or even work energy bar charts are conceptual tools that help to illustrate how the energy changes both the form and the amount as the object moves from the initial state to the final state

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web check your understanding use your understanding of the work energy theorem to answer the following questions then click the button to view the answers 1 consider the falling and rolling motion of the ball in the following two resistance free situations

