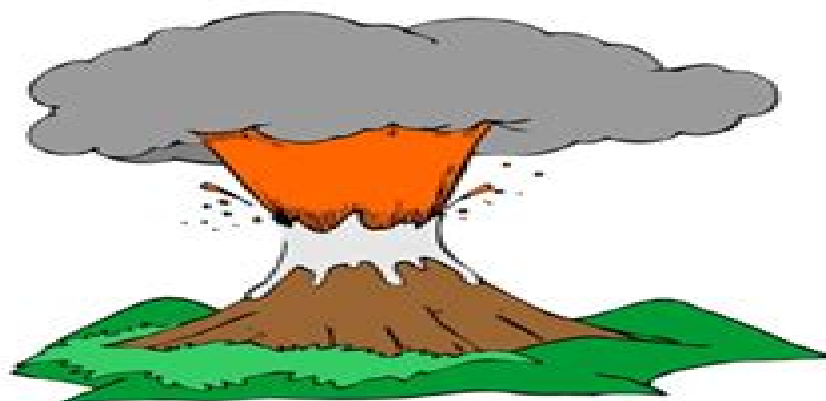


Volcanoes: Fire Under the Surface

by Kelly Hashway

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.

- **Ash and cinder volcanoes** have steep sides but aren't very tall. When they erupt, small solid fragments of rock and ash come out of the volcano.
- **Acid lava cone volcanoes** are full of magma, which we call lava once it reaches the surface. These volcanoes erupt with very slow moving, thick lava that doesn't travel far. As the lava cools and hardens, it forms new soil and rock, giving the volcano its cone shape.
- **Shield volcanoes** are also made of hardened lava. When they erupt, their lava flows are very thin and runny. The lava spreads out and becomes new soil, making these volcanoes very large with gentle sloping sides.
- **Composite cone volcanoes** are the most common. They are very tall, and they erupt with runny lava followed by explosive thick lava. They also have a lot of ash. These volcanoes have very steep sides because the ash and thick lava cools and becomes part of the surface.

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Science Explorer: Inside Earth Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Carole Garbuny Vogel, Pearson Education, Inc, Pearson/Prentice Hall, Michael Wyssession, Prentice-Hall, Inc, 2005 Set of books for classroom use in a middle school science curriculum all in one teaching resources volume includes lesson plans teacher notes lab information worksheets answer keys and tests McDougal Littell Earth Science Nancy E. Spaulding, 2002-01-07 **Earth Science**, 2001 *Prentice Hall Science Explorer Inside Earth Adapted Reading and Study Workbook 2005c* Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Pearson/Prentice Hall, Prentice Hall Staff, 2005-05-01 1 Plate Tectonics 2 Earthquakes 3 Volcanoes 4 Minerals 5 Rocks *CD-ROMs in Print* , 2001 **The School Librarian** , 2004 Science Explorer Inside Earth Guided Reading and Study Workbook 2005c Michael J. Padilla, □□□, Ioannis Miaoulis, Martha Cyr, 2004-04-01 1 Plate Tectonics 2 Earthquakes 3 Volcanoes 4 Minerals 5 Rocks Science Explorer Russell G. Wright, **Explorer Books (Pathfinder Science: Earth Science): Volcano!** National Geographic Learning, Sylvia Linan Thompson, 2006 Single copy of Volcano Travel inside the Earth to explore how volcanoes form Learn about what causes them to erupt changing lands and lives in the process **The Software Encyclopedia** , 1986

The Top Books of the Year Science Explorer Inside Earth Volcano Worksheets The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. Science Explorer Inside Earth Volcano Worksheets : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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