

 READERS



Eruption!

The Story of Volcanoes

ANITA GANERI

A Note to Parents and Teachers

DK READERS is a compelling reading programme for children. The programme is designed in conjunction with leading literacy experts, including Cliff Moon M.Ed., who has spent many years as a teacher and teacher educator specializing in reading. Cliff Moon has written more than 160 books for children and teachers. He is series editor to Collins Big Cat.

Beautiful illustrations and superb full-colour photographs combine with engaging, easy-to-read stories to offer a fresh approach to each subject in the series. Each DK READER is guaranteed to capture a child's interest while developing his or her reading skills, general knowledge, and love of reading.

The five levels of DK READERS are aimed at different reading abilities, enabling you to choose the books that are exactly right for your child:

- Pre-level 1:** Learning to read
- Level 1:** Beginning to read
- Level 2:** Beginning to read alone
- Level 3:** Reading alone
- Level 4:** Proficient readers

The “normal” age at which a child begins to read can be anywhere from three to eight years old. Adult participation through the lower levels is very helpful for providing encouragement, discussing storylines and sounding out unfamiliar words.

No matter which level you select, you can be sure that you are helping your child learn to read, then read to learn!





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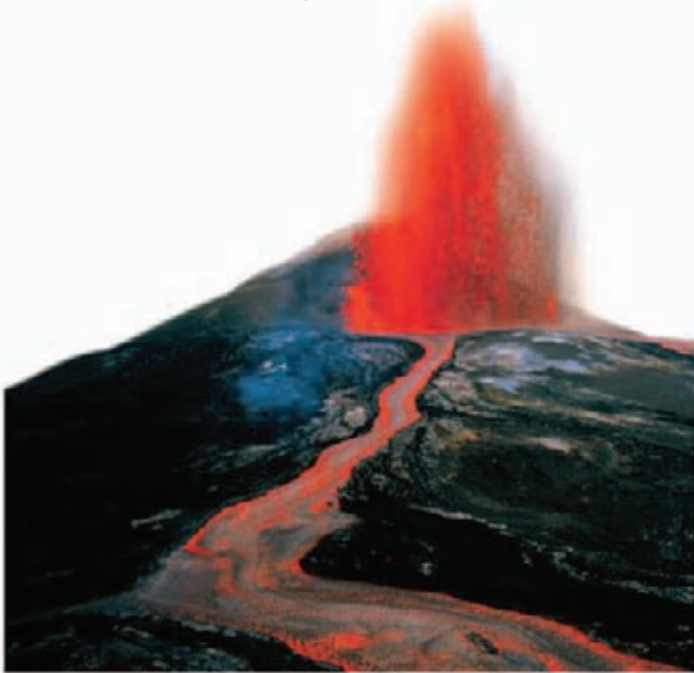
READERS



Eruption!

THE STORY OF VOLCANOES

Written by Anita Ganeri



A Dorling Kindersley Book

What looks like a mountain
but spits out fire?

What shoots clouds of smoke
from a hole in its top?

What sometimes explodes
with a BANG?





A volcano!
It's starting to erupt.

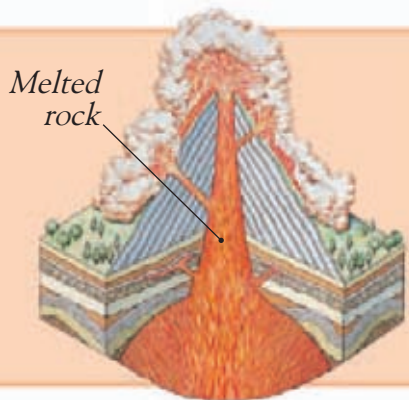
The story of a volcano
starts underground.

If you jump up and down
on the ground,
it feels solid and hard.

But inside the earth,
it is so hot that the rocks melt.
The rocks are runny
like melted butter.

Melted rock

Inside a volcano,
the melted rock rises
because it is hotter
and lighter than the
rocks around it.



Sometimes the melted rock
bursts up through a hole
or a crack in the ground.
This is how a volcano begins.



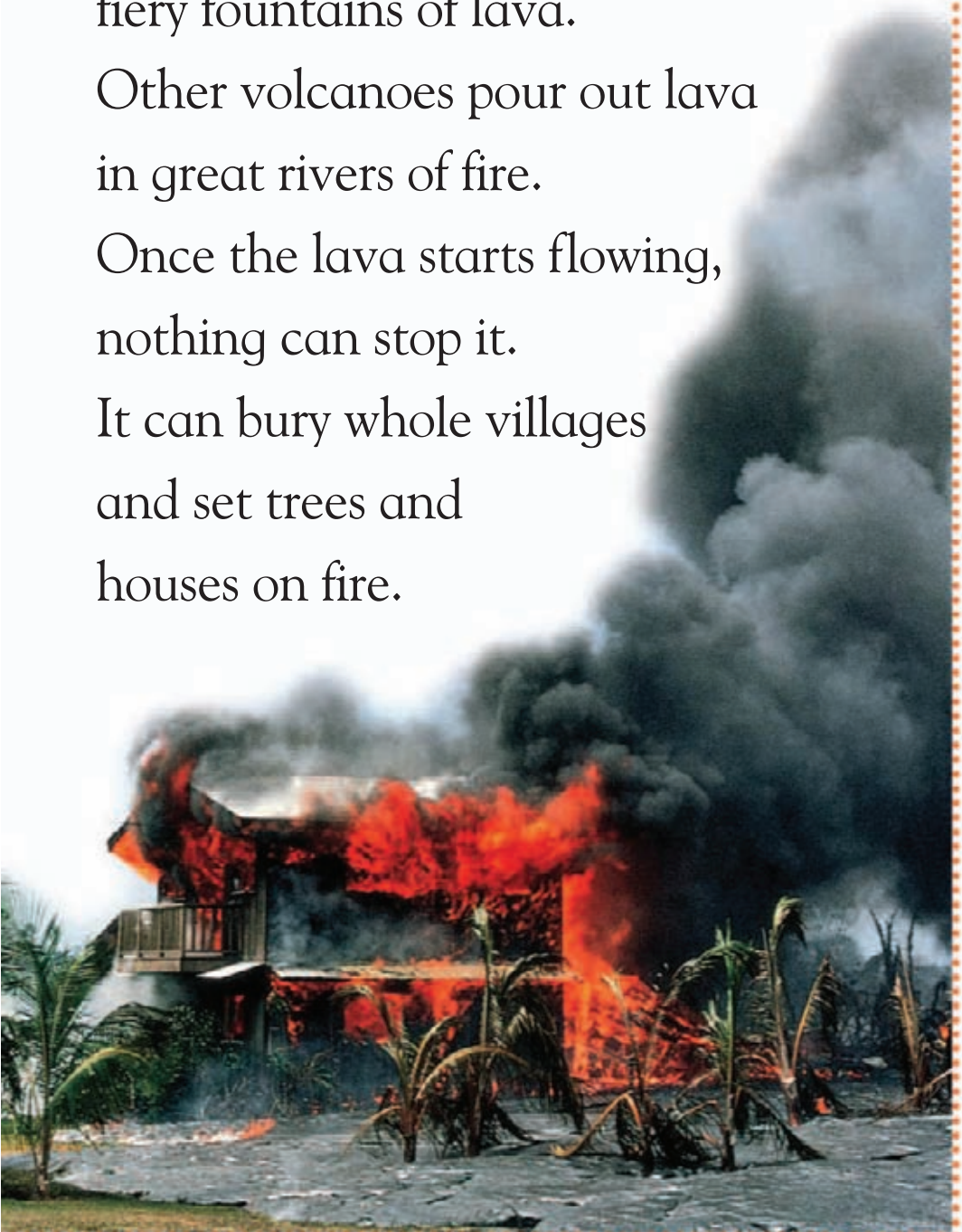
The rock that comes out of
a volcano is called lava.

At first, it is runny
and red-hot.

It cools down
in the air and
turns into hard,
black rock.

Cooled lava

Some volcanoes spurt out
fiery fountains of lava.
Other volcanoes pour out lava
in great rivers of fire.
Once the lava starts flowing,
nothing can stop it.
It can bury whole villages
and set trees and
houses on fire.



Volcanoes have different shapes and sizes.

Some volcanoes erupt with a bang.

Hot rocks and ash shoot high into the air.

These volcanoes form cone-shaped mountains with steep sides.





Other volcanoes erupt quietly.
The lava oozes gently out of the top
and spreads out all around.
These volcanoes are low and wide.

The biggest volcano

Mauna Loa in Hawaii
is the biggest volcano in
the world. It is an
amazing 5,846 metres
(18,000 feet) high.





Some volcanoes erupt violently.

They blast out
clouds of hot ash and dust.

The ash is made of
tiny pieces of lava.

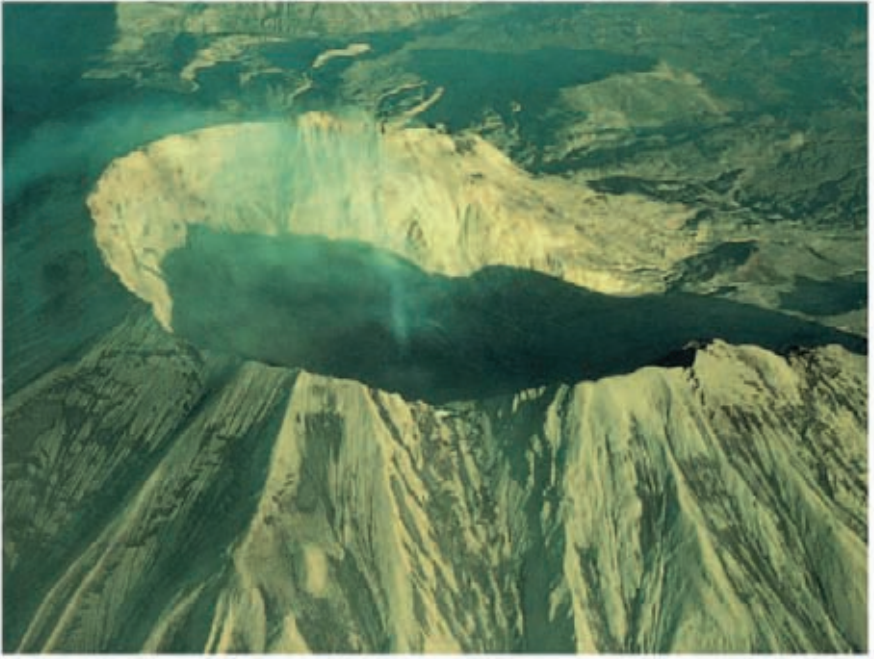
The ash and dust
shoot high into the air.

Some of it lands near the volcano.

It covers buildings and fields
in thick, dark grey powder.

Some ash and dust is carried away
by the wind.
It can block out the sun and
turn day into night.





At the top of a volcano
is a hollow called a crater.
In it is a hole called the vent.
Lava, ash and dust
come out of the vent.
Some craters are huge and can
be many kilometres (miles) wide.

When a volcano stops erupting,
the crater is left.

Some old craters fill up with water
to form huge lakes.

Sometimes the crater becomes
a dry, grassy plain.

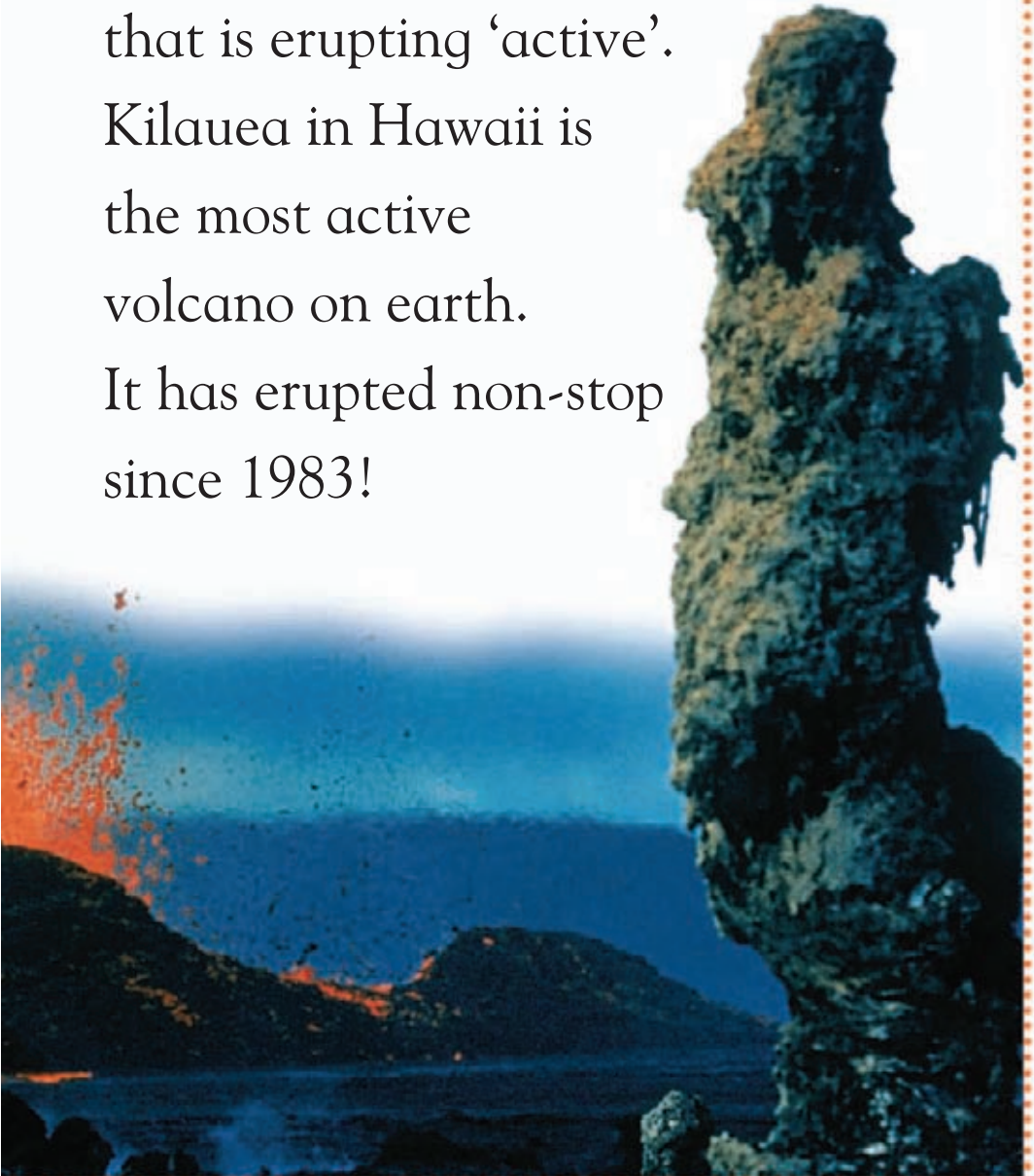


Extinct volcanoes

We call a volcano that has stopped erupting 'extinct'. It will probably never erupt again.



When a volcano shoots out lava and ash, we say that it is erupting. We call a volcano that is erupting 'active'. Kilauea in Hawaii is the most active volcano on earth. It has erupted non-stop since 1983!



We call a volcano that is not erupting 'dormant'.

That means it is sleeping, but it could erupt at any time.

Montserrat is a tiny island in the Caribbean Sea.

It used to be a beautiful place to live.

Then, in 1995, a volcano called Chance's Peak started to erupt.





It had been dormant for 400 years. Many people had to leave their homes as ash fell everywhere. Some left the island and went to live in another country. It was too dangerous for them to stay.



Volcanic ash

Mount Vesuvius is a volcano in Italy.

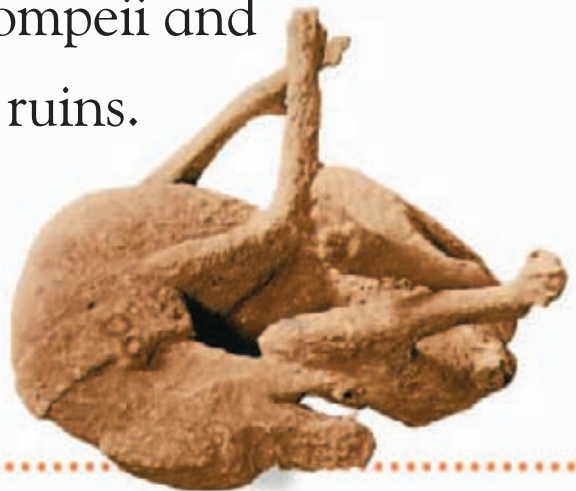
In AD 79, Mount Vesuvius erupted violently, blasting hot ash and gas into the air.

The ash buried the town of Pompeii and thousands of people died.

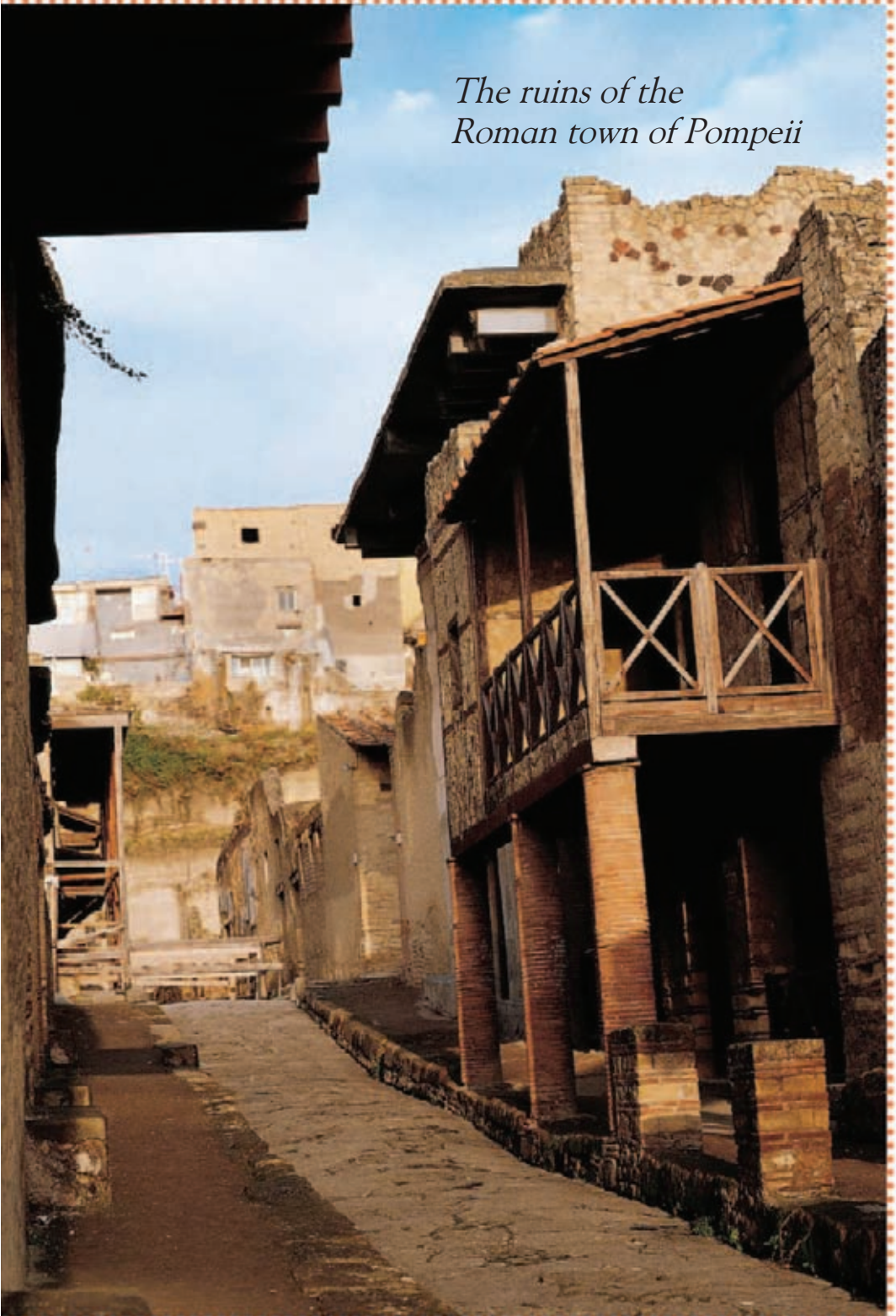
Today, people have cleared the ash away.

You can walk around the streets of Pompeii and see the Roman ruins.

A cast of a dog covered by the ash.



*The ruins of the
Roman town of Pompeii*



Pumice stone

Pumice stone is a type of lava. It is used for rubbing away hard skin. It is the only type of rock that floats.



Volcanoes can be useful.

On the slopes of volcanoes,
the soil is good for growing crops.





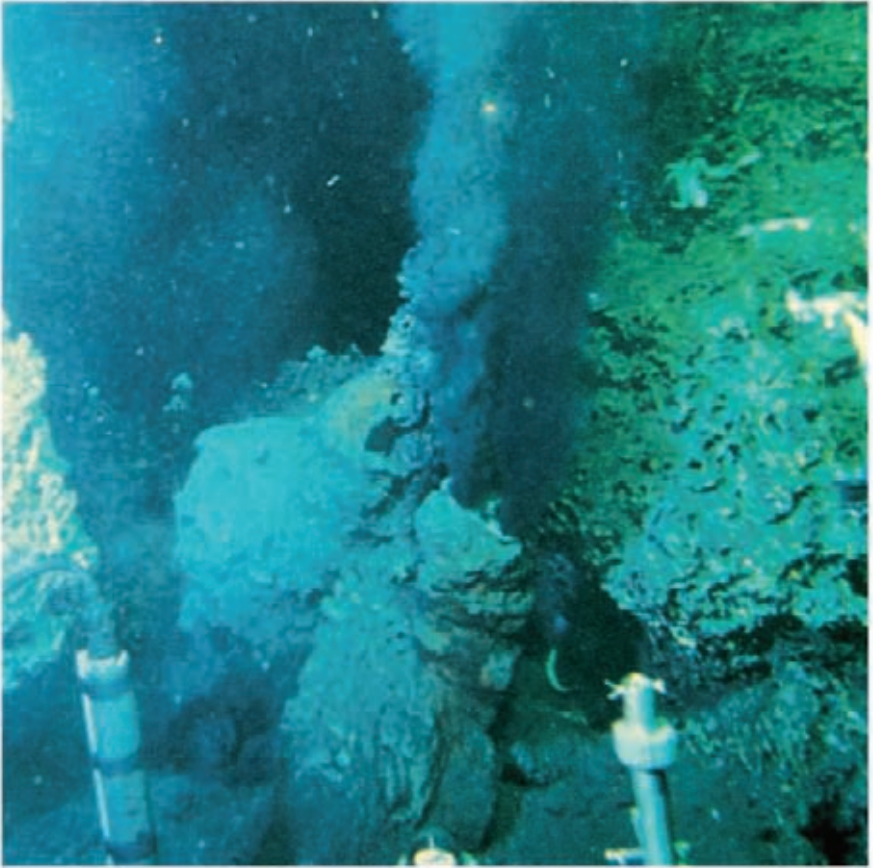
In some places, blocks of solid lava are used to build roads, bridges and houses. Precious gold and diamonds are found in some volcanic rock.





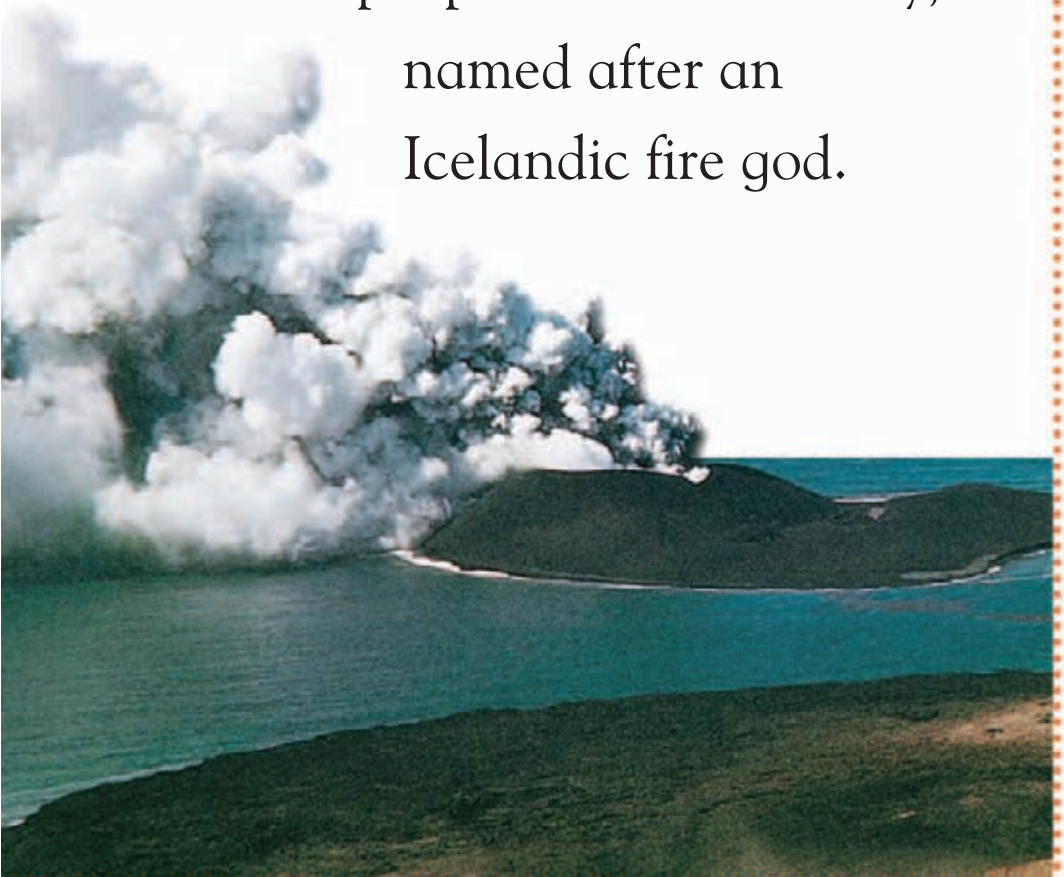
Old Faithful is
a famous geyser
in Yellowstone
Park, Wyoming,
U.S.A.

It got its
name
because
it always
bursts up
once every
hour.



There are lots of volcanoes
under the sea.
You can't see most of them.
But some underwater volcanoes
are so tall that they poke up
from the sea to make islands.

In 1963, a volcano erupted
under the sea near Iceland.
The sea started to smoke and steam.
By the next day,
the volcano had grown and
a brand-new island had formed.
The local people called it Surtsey,
named after an
Icelandic fire god.





Hawaii is a group of more than 100 islands in the Pacific Ocean. The islands are the tops of huge underwater volcanoes. Some of these volcanoes have two or more craters, but they erupt very gently.

In some places,
lava flows into the sea and
makes it hiss and steam.
Some of the beaches have
black sand, which is made from
crushed-up lava.



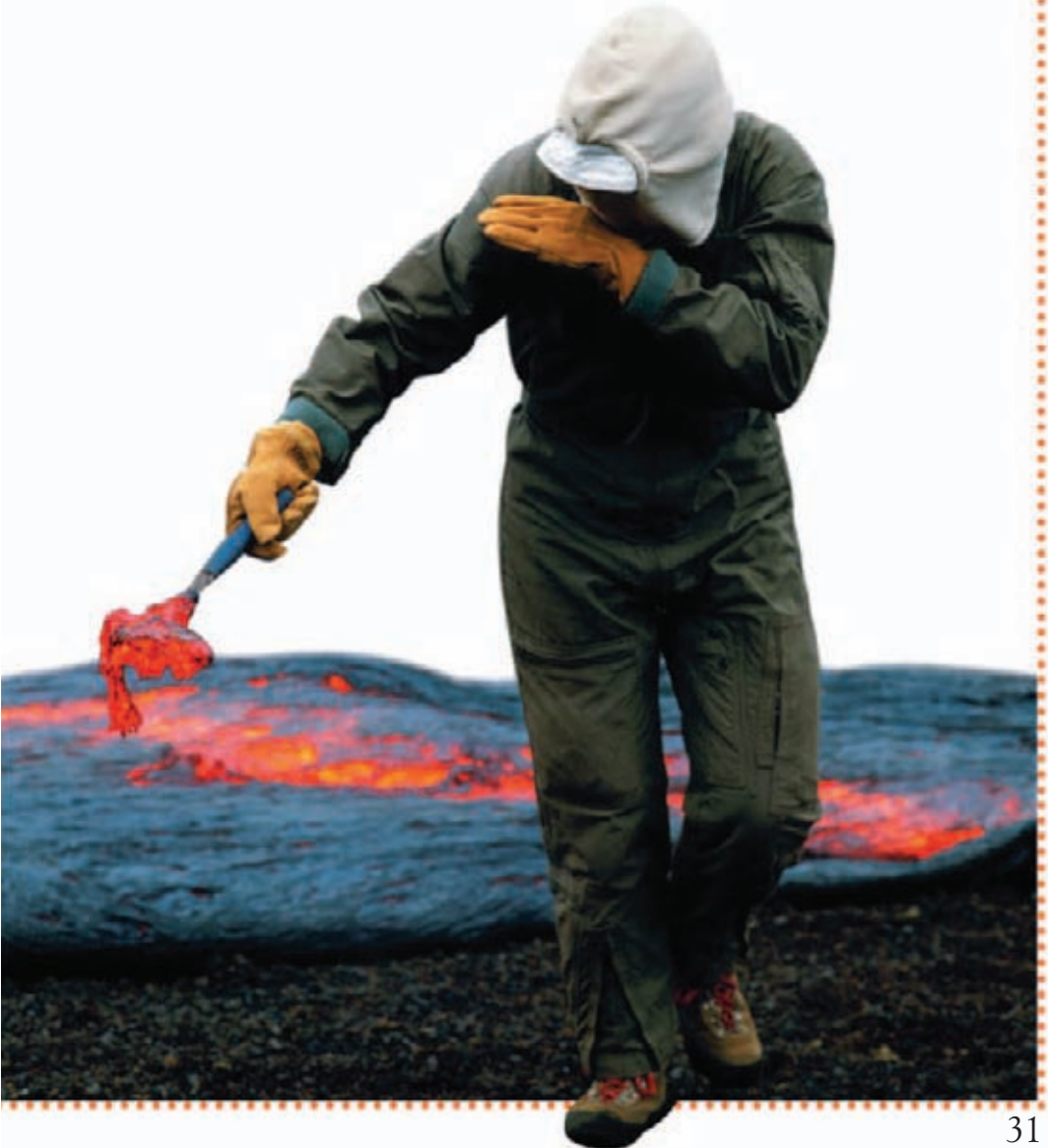


Volcanologists are scientists who try to find out how volcanoes work.

They want to know when volcanoes are going to erupt so that people living nearby can be moved to safety.

But volcanologists have not found all the answers yet.

No one knows when a volcano will erupt – until it actually does!



Volcano facts



There are about 1,500 active volcanoes on earth. About 50 of them erupt every year, but most of these eruptions happen underwater.

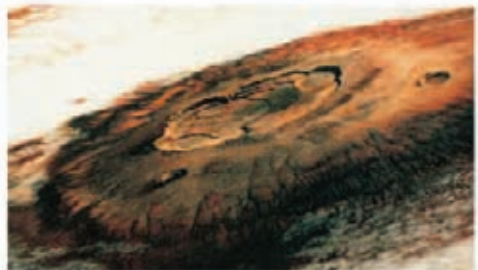
In 1883, the volcano on the island of Krakatoa in Indonesia erupted with the loudest bang ever heard.

The word 'volcano' comes from Vulcan, the Roman god of fire.



Mount St. Helens is a volcano in Washington, U.S.A. It erupted in 1980 after being dormant for 123 years. The blast blew 8,000 million tons of rock off the top.

The biggest volcano in the universe is Olympus Mons on Mars. It stands an amazing 27 kilometres (17 miles) high. It last erupted 200 million years ago and is now extinct.



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 READERS

My name is

I have read this book

Date



READERS

Level 2

Dinosaur Dinners
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Bugs! Bugs! Bugs!
Slinky, Scaly Snakes!
Animal Hospital
The Little Ballerina
Munching, Crunching, Sniffing,
and Snooping
The Secret Life of Trees
Winking, Blinking, Wiggling,
and Wagging
Astronaut: Living in Space
Twisters!
Holiday! Celebration Days
around the World
The Story of Pocahontas
Horse Show
Survivors: The Night the Titanic Sank
Eruption! The Story of Volcanoes
The Story of Columbus
Journey of a Humpback Whale
Amazing Buildings
Feathers, Flippers, and Feet
Outback Adventure: Australian Holiday

Sniffles, Sneezes, Hiccups, and Coughs
Let's Go Riding
Starry Sky
Earth Smart: How to Take Care
of the Environment
Water Everywhere
Telling Time
A Trip to the Theatre
Journey of a Pioneer
Star Wars: Journey Through Space
Star Wars: A Queen's Diary
Star Wars: R2-D2 and Friends
Star Wars: Jedi in Training
Star Wars Clone Wars: Anakin in
Action!
Star Wars Clone Wars: Stand Aside –
Bounty Hunters!
Spider-Man: Worst Enemies
Power Rangers: Great Adventures
Pokémon: Meet the Pokémon
Pokémon: Meet Ash!
Indiana Jones: Traps and Snares
Meet the X-Men

Level 3

Shark Attack!
Beastly Tales
Titanic
Invaders from Outer Space
Movie Magic
Time Traveller
Bermuda Triangle
Tiger Tales
Plants Bite Back!
Zeppelin: The Age of the Airship
Spies
Terror on the Amazon
Disasters at Sea
The Story of Anne Frank
Extreme Sports
Spiders' Secrets
The Big Dinosaur Dig
The Story of Chocolate

School Days Around the World
Welcome to China
My First Ballet Show
Ape Adventures
Greek Myths
Star Wars: Star Pilot
Star Wars: I Want to Be a Jedi
Star Wars: The Story of Darth Vader
Star Wars: Yoda in Action
Star Wars: Forces of Darkness
Marvel Heroes: Amazing Powers
The X-Men School
The Invincible Iron Man: Friends and
Enemies
Wolverine: Awesome Powers
Fantastic Four: The World's Greatest
Superteam
Fantastic Four: Adversaries