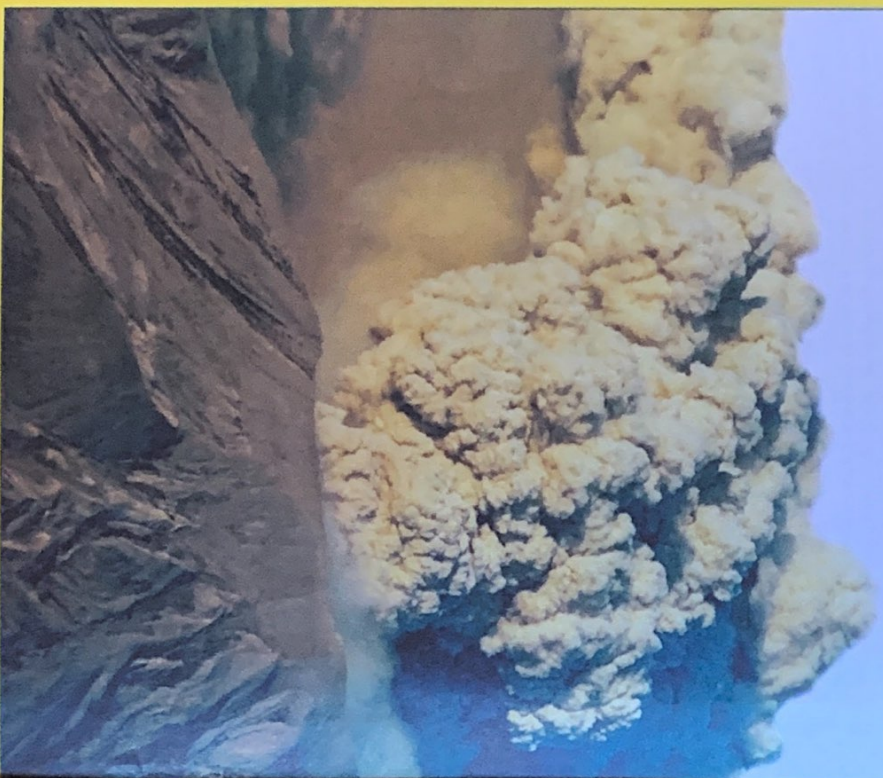


Violent Volcanoes

By Marilyn Sprick
Illustrated by Cheryl Kirk Noll



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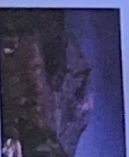
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Vocabulary Words



volcano

A volcano is a hill or a mountain that is formed from hot melted rock that flows from inside the earth.



lava

Lava is hot melted rock. The hot melted rock is called lava when it spills onto the land.



ash

Ash is a powder that is left after something is burned. What will you find after a fire?



island

An island is land that has water all around it.

A Volcano

CHAPTER 1

What is a Volcano?

What do we know about the earth?

This is the earth. The earth has three layers.

Look at the picture. Touch numeral 1. Read what the label says.



People live on the top layer. We call this layer the crust.

Look at the picture. Touch numeral 2. Read what the label says.

Under the crust is a layer of hard rock. This is the middle layer.

Look at the picture. Touch numeral 3. Read what the label says.

Under the middle layer is hot rock. The inner part is so hot that the rocks are melted. Scientists call the inner part of the earth the earth's core.

How does a volcano develop?

The hot rock stays under the earth's crust. If the crust cracks, the hot melted rock may spill onto the land. Then it is called lava. When lava spills from the earth, we say that a volcano has erupted.



What do we call hot melted rock that spills onto the land? What happens when a volcano erupts? What facts did we learn about volcanoes in this chapter?

A volcano is the hill or mountain formed by the lava. Some volcanoes erupt violently with hot rock and lava spewing into the air. Other volcanoes erupt with lava flowing gently from the earth in thick rivers of hot melted rock. There are hundreds of active volcanoes in the world today.

What Is a Volcano?

Let's review some of the facts we learned about the earth and its volcanoes.



What do we know about the earth?

Now look at the first picture again. We can tell at least four facts about this picture.

- Fact one: How many layers is the earth made of?
Start your answer with "The earth is made of . . ."
- Fact two: Where do people live?
Start your answer with "People live on the earth's . . ."
- Fact three: What is the middle layer of the earth made of?
Start with "The middle layer of the earth is made of . . ."
- Fact four: What is the inner layer of the earth made of?
Start with "The inner layer of the earth is made of . . ."

How does a volcano develop?

Start with "A volcano develops when . . ."

What other facts would you like to learn about volcanoes?

island • islands
volcano • volcanic • volcanoes

CHAPTER 2

A Volcano in Hawaii

What is this chapter about? So, what is the topic of this chapter?



If you visit an island in the sea, it may be a volcanic island. When volcanoes in the sea erupt, lava spills into the sea. When the lava cools, an island is built from the lava. The islands of Hawaii are volcanic islands.

If you go to Hawaii today, you may see a living volcano. Living volcanoes may still erupt today.

You may wish to visit the lava beds on the "Big Island" of Hawaii. In the lava beds, the land is black and the volcano gives off hot steam.

Why is this volcano called a living volcano? Tell two facts about the lava beds.

Long ago, the people of Hawaii did not understand why volcanoes erupted. They would tell a story to help them understand why volcanoes erupted.



What did the old Hawaiian stories tell about? How did the stories help the Hawaiian people?

The Legend of Pele

CHAPTER 1

Pele's Temper

In the past, people would tell stories to explain the things they saw. These stories are called legends. According to Hawaiian legend, a goddess of fire named Pele lives in Hawaii in the volcanic crater of Kilauea.

Who is the legend about?

Long ago, the goddess Pele did not live in Hawaii. Pele lived with her mother and father.

The people say that Pele did not get along with her brothers and sisters. It is said that she had a hot temper. Pele would get mad at them and send hot melted rock into the sea.



What was Pele's problem? What would she do when she got mad? What is hot melted rock called?

When Pele sent lava into the sea, her sister the sea goddess would get upset. Pele's sister said, "Pele, listen to what I have to say. You must go! You have killed hundreds of fish in my sea. Pele, you must go because you cannot stop."



Why was Pele's sister mad at Pele? What did Pele's sister say?

Pele's mother and father nodded. They said, "Pele must go."



What does Pele need to do? What do you think Pele will do?

CHAPTER 2

Pele's Land

Who is the story about? What was Pele's problem? Why did Pele need to leave her family?

The people say that Pele's brother the shark god took Pele away. Pele's brother said, "Pele can travel the seas with me."

Pele sat on her brother's back and they did travel the seas. When Pele and her brother got to the island of Hawaii, Pele said, "This will be my land."



Where did Pele and her brother go?

Then it is said that Pele dug a deep pit on top of the island. Pele said, "This is where I will live."

What did Pele do on the top of the island?

The people say that Pele still lives in the volcano where the rock is hot. They say that the land rumbles when she is upset. Pele may darken the sky with ash and send lava across the land.



What do the people say happens when Pele is upset?

Mount St. Helens

CHAPTER 1

A Volcano Erupts

What is the topic of this chapter?

Mount St. Helens is a volcano in the state of Washington. It was created by many eruptions over thousands of years. Then, for more than a hundred years, the volcano was quiet.

Where is Mount St. Helens? How long had it been since the volcano had erupted?

The volcano had not erupted in years.

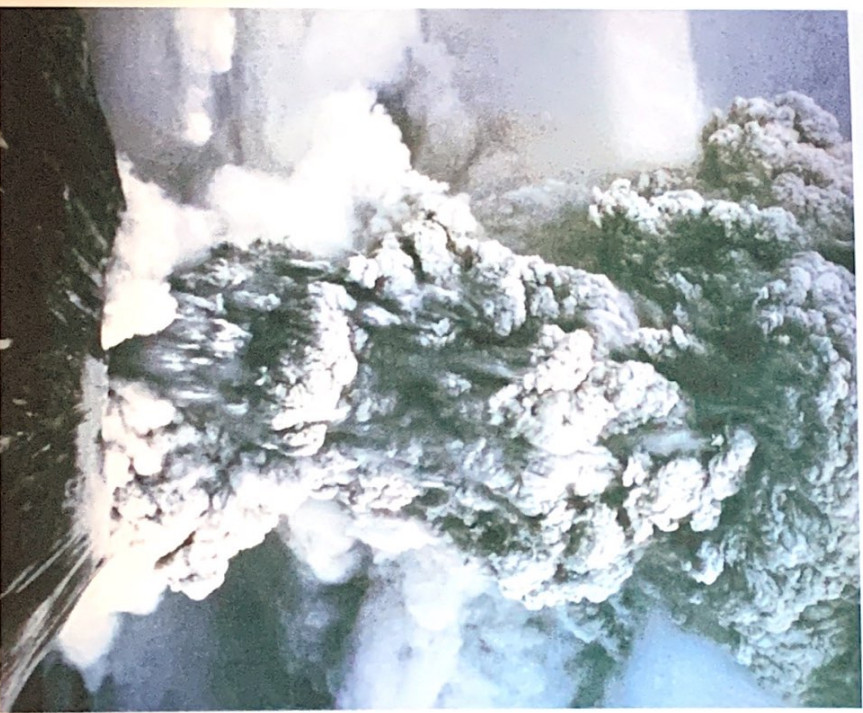
People did not think it ever would. It had lots of trees on it. Animals lived there. There were even parks on the volcano where people could camp and swim.



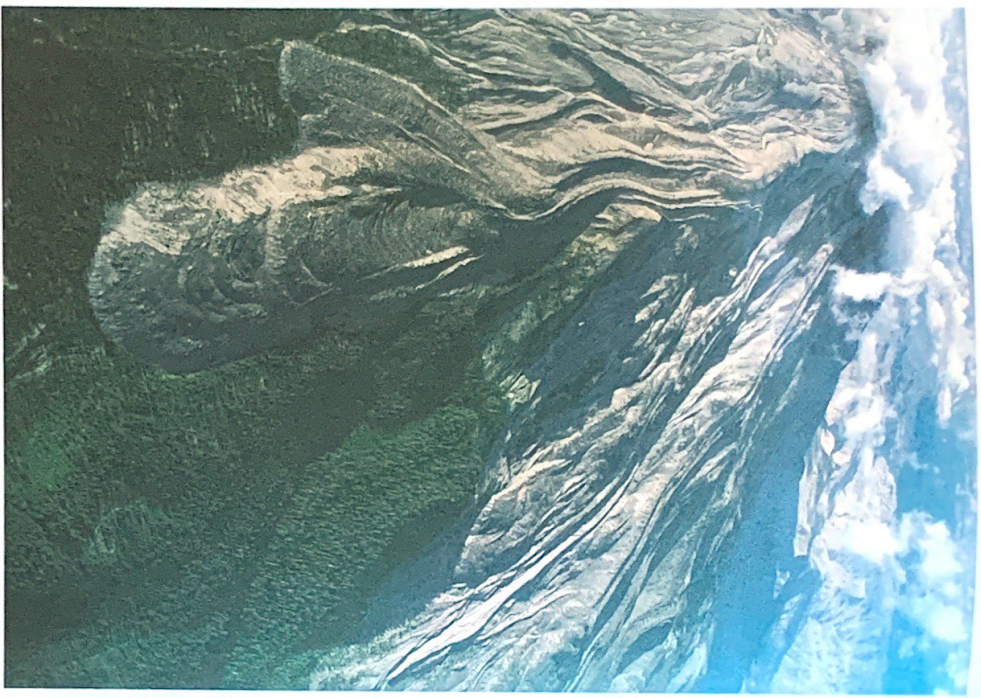
In 1980, the volcano began to stir. First there was an earthquake, then a number of small explosions. For about a month, one side of the mountain began to swell.

What happened when the volcano began to stir in 1980?

Then one day in May, a blast of rock, steam, and ash shot into the sky. It was so thick you could not see the volcano. The sky got dark.



What happened next?



Rivers of ash and hot mud ran from the volcano. Plants, animals, and even people were killed. When the volcano stopped, all that could be seen was ash and mud across the land.

What happened to the volcano at the end of the chapter? How do you think people felt?

CHAPTER 2 After the Volcano Blast

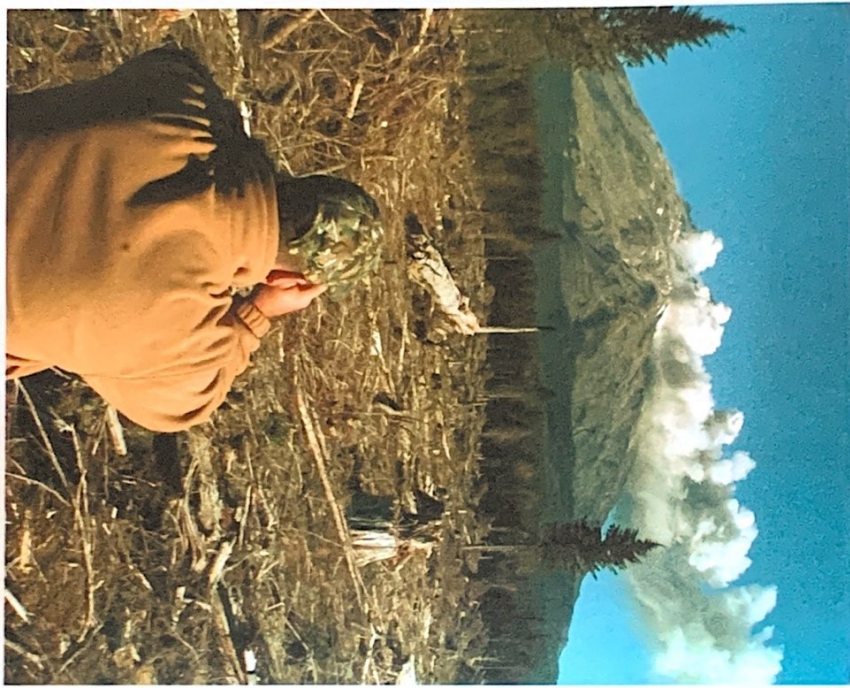
When the volcano erupted, hot steam and ash could be seen. Hot mud and rock ran across the land. Trees and animals were killed. When the ash settled, people could see that ash and mud lay across the land. People were interested in what would happen to the land.



When the volcano stopped erupting, people went to see it. Soon people could see small plants and trees starting to spring up from under the ash and mud. Small animals had hidden and lived. People could see insects, small mammals, and frogs.

What happened after the volcano stopped erupting? What could people see on the volcano after it had stopped erupting?

People began to visit the volcano. For years the volcano rested, but it is a living volcano. Today the earth is rumbling, and the volcano is sending steam into the sky. People can't go near the volcano, but they are interested in what it will do.



What do you think the volcano will do next? Do you have any questions about Mount St. Helens?

Storybook Decoding Review

■ Sounds you know:

V	o	p	u	y
f	er	g	wh	a
B	v	ay	e	P

✈ Words you can sound out:

never	deep	called	rumble
yard	spring	melted	interested
bucket	steam	passed	volcano

● Words you have learned:

of	people	they	from
away	America	friend	even

♥ Phrases you can read:

have a ball	into the volcano
on a clear day	about two years ago

🗨 Sentences you can read:

Mother said, "Today is the best day ever."
 It would be fun to live on the island of Hawaii.
 Even my little brother was glad to see me.

Quivering Quakes

Illustrated by Allan Eitzen

An Earthquake

By Marilyn Sprick

The Legend of Queen Nell

By Marilyn Sprick and Jessica Sprick

Drop, Cover, and Hold

By Shelley V. Jones

UNIT 31 STORIES

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Vocabulary Words



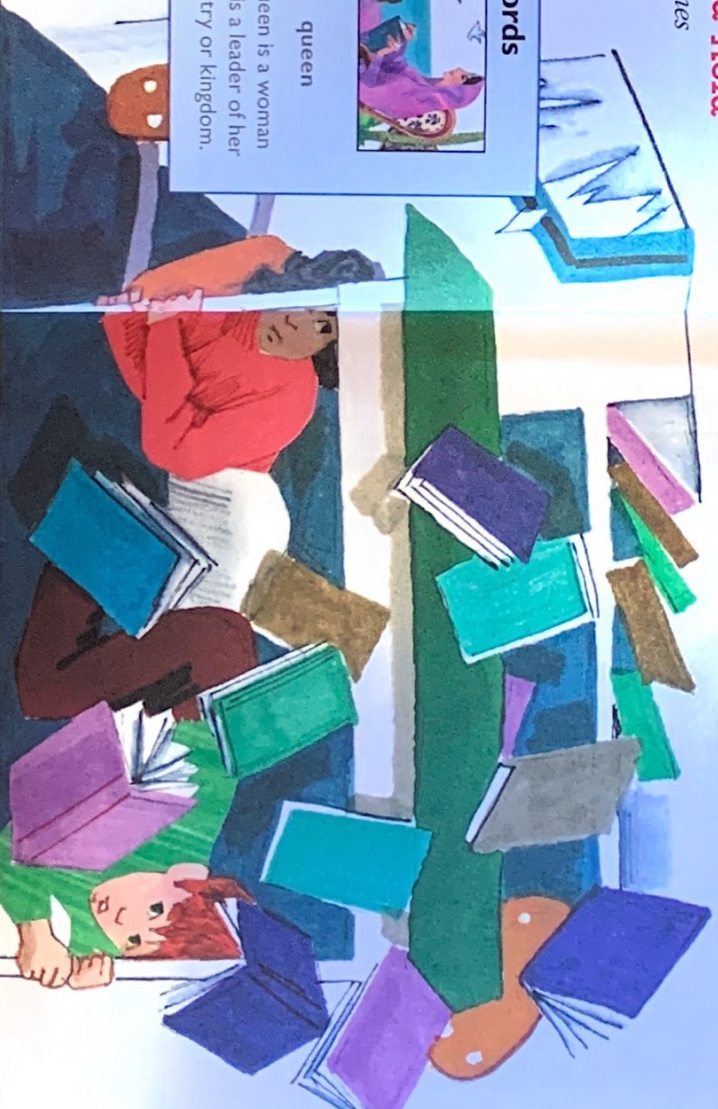
servant

A servant is a person who has a job waiting on others.



queen

A queen is a woman who is a leader of her country or kingdom.



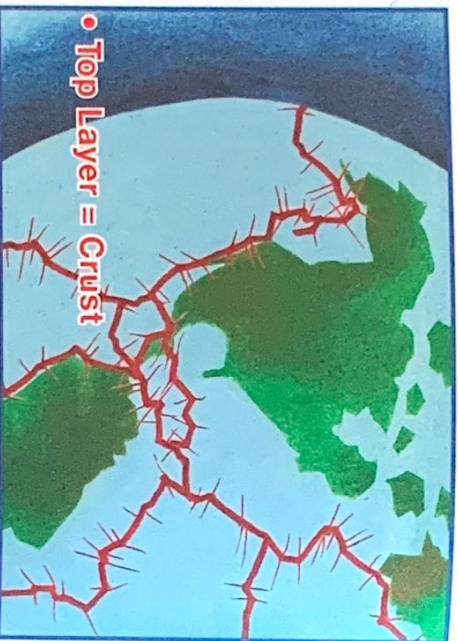
An Earthquake

CHAPTER 1

What Is an Earthquake?

What causes an earthquake?

This is the earth. Remember, the earth has three layers. The top layer of the earth is called the crust. The earth's crust is very deep.



See the picture. Deep under the earth's surface, the crust is made up of big pieces of hard rock called plates. The plates are outlined in red.

Trace the plates with your fingers.

When the plates move, they sometimes bump and scrape against each other. The land vibrates and shakes as the plates bump and scrape.

When this happens, we feel an earthquake.

What happens when the plates bump and scrape against each other?



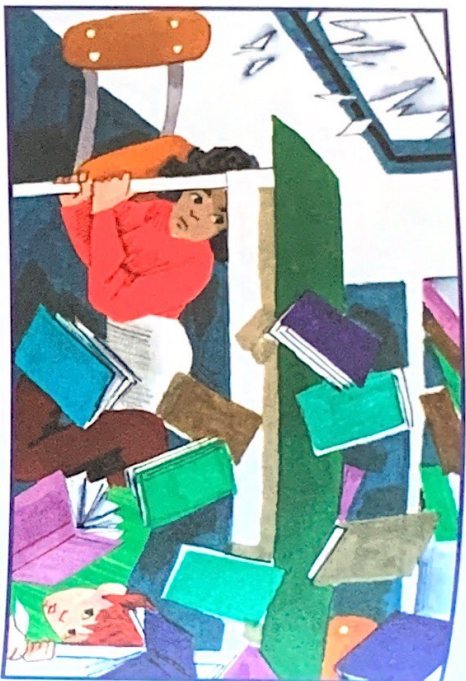
What happens in an earthquake?

Earthquakes can be big and they can be small. A small earthquake is quick. If an earthquake is small, you may ask, "What was that bump? Did you feel that?"



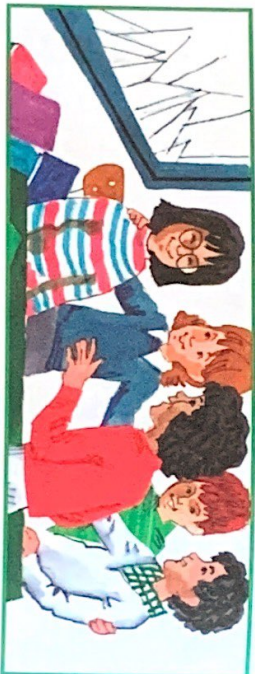
Though a small earthquake may feel like a quick little jiggle, a big earthquake can be very violent and scary. Luckily, big earthquakes don't happen very often.

What is happening in the picture? How do you think the boy and girl feel?



What should you do in a big earthquake?

In a big earthquake, you may hear a rumble. The ground will vibrate and shake. If you are in a big earthquake, it is important to drop, get under cover, and hold on.



What should you do during an earthquake?

When an earthquake happens, it may seem as if it will never stop, but even a big earthquake is quick. Big earthquakes do not happen often. If you feel an earthquake, remember what to do. Then, remember that the earthquake will stop soon.

CHAPTER 2

The Day of the Earthquake

What is this story about?

One day, we had a big earthquake where I live. My brother, Mack, and I were asleep when all of a sudden the beds began to hop.



My brother asked, "What's that?" Then my clock fell off the wall. Quick as a wink, we were under the beds.

My, what a clatter! We could hear glass shatter. "Wham, bam, crash!"

We hid until the beds quit hopping. We hid until things quit crashing. Soon all was still.

What did the boys do? Were they safe? How do you think they felt?

Then I remember hearing my mom. She was yelling, "It's me. I'm cool. Are you cool?" We all got big hugs.

After the earthquake, the apartment was one big mess. Mom said, "My, my, my." Then she grinned, and we grinned back.



After the earthquake, the apartment was a mess. Why did the boys' mother grin? Why did the boys grin?

The Legend of Queen Nell

CHAPTER 1

Sweet Queen Nell

Long, long ago, in a faraway land, there was a beautiful young queen. From the time she was born, Queen Nell had been given whatever she wanted.

Queen Nell had one hundred servants. Her servants got Nell whatever she wanted, but Nell always remembered to say "please" and "thank you."



Queen Nell loved beautiful things.

Queen Nell had long, red, silk dresses. She had slippers of glass and silver rings on her fingers.

Queen Nell spent her days resting, visiting with friends, reading, and singing. All was fine for Queen Nell. She had a good life in her beautiful palace by the sea.



Tell me what Queen Nell's life was like.

Then, one day there was a deep grumble from within the earth. The earth began to quiver. Then the earth shook. Things began to tumble from the walls. Queen Nell hid under her big, strong bed. My, what a clatter! She could hear things shatter. "Wham, bam, crash!"



What do you think was happening? There were earthquakes long ago, just as there are today.

When all was still, Queen Nell could see that her strong palace had survived the quake. Then Nell walked outside the palace walls. Nell could see that her servants' homes had fallen during the quake.

Queen Nell said, "This is sad." Then Queen Nell asked, "Why did this happen?"

CHAPTER 2

Queen Nell Helps

What happened in the last chapter?

All was not well in Queen Nell's kingdom. A big earthquake had left things a mess. The people were sad.

Queen Nell said, "This is bad. Please, let me help you." Then quick as a wink, Queen Nell began helping her people clean up.

The Queen and the people worked hard. Day after day, they worked together.

What did Queen Nell do? How do you think that made the people feel?



One day, a little kid said to Nell, "Queen Nell, you are a great worker! I want you to be my friend."

Nell grinned and said, "You are my friend too. We are a team."

Why did the child want Queen Nell to be her friend?

Queen Nell said to her people, "We can build stronger buildings. We will build where the land is hard. We can work together!" The people nodded. They even sang as they worked.



CHAPTER 3

The Thinkers Tell a Legend

What is a legend? What do you think will happen in this chapter?

The people were happy with their new homes. Still, they worried and wanted to know why the earth had rumbled and roared.

Queen Nell went to the thinkers of her land. She said, "We do not understand why the earth was so mad. Why did the earth grumble and quiver? Please tell us why the earth shook so hard."

What did Queen Nell want to understand?

One thinker said, "The earth is not mad."

The thinkers were as puzzled as Queen Nell. They did not know what made the earth shake, but they also knew that the people would be sad until they understood why the earth had rumbled and rolled. So, the second thinker said, "Well, the earth is very heavy—too heavy for the four elephants."

Queen Nell asked, "What elephants?"

Then the second thinker said, "Oh, the elephants that hold up the earth."

Then the third thinker said, "Yes, and the four elephants are standing on the back of a turtle."

And the fourth thinker added, "It is very hard for that turtle to balance on the cobra! Imagine that!"

Queen Nell closed her eyes and tried to imagine the earth sitting on four elephants that stood on top of the turtle that balanced on top of a cobra.



What are the thinkers trying to explain?

Queen Nell listened to the thinkers. Then she said, "My, the animals must be strong. It must be hard to stand still year after year."

The thinkers nodded and were glad.

Then Queen Nell said, "Please tell the people why the earth shook. Then tell them what to do."

The thinkers said, "We will do as you wish. We will tell the people to drop, cover, and hold on."

Queen Nell said, "Thank you."



Why did Queen Nell thank the thinkers? The thinkers didn't know why the earth shook, so they made up a story. The thinkers did know what the people should do if there was an earthquake. What did the thinkers say they should do?

Drop, Cover, and Hold

What is the title of this poem?

Listen, my friends,
And you will hear
Of the earthquake's rumble
And the people's fear.

When the earth was mad,
It shook and shook.
The people could hear.
The people could look.

Things began to fall.
Things began to shatter.
Things began to tumble.
Things began to clatter.

"Help! Help!
We are so mad!
Help! Help!
We are so sad!"

"We need a plan.
The plan we pick
Should be fast
And should be quick."



The people did ask
And they were told,
Three little words,
Drop, cover, hold.

The people nodded
And were glad.
The people were
No longer sad.

The people did ask
And they were told,
Three little words,
Drop, cover, hold.



Storybook Decoding Review

■ Sounds you know:

Qu	p	o	v	er
y	ea	P	F	b
ay	u	g	wh	qu

✈ Words you can sound out:

crashing	visiting	hopping	yelling
bump	lump	clump	stump
pet	vet	wet	met

● Words you have learned:

work	very	friend	from
they	was	where	of

♥ Phrases you can read:

quick as a cricket	long ago
two of the	never ever

📖 Sentences you can read:

If I were a queen, I would have a big castle.
"Quit that!" she yelled at her brother.
One day, we will go to America.