



Teacher's Notes: Volcano in Hawaii

Learning Objectives:

The students will be able to identify Hawaii on a map.

The students will be able to describe what lava is.

The students will be able to describe the effects of a volcano.

The students will be able to define the word "evacuate."

The students will be able to answer WH questions about the volcano that erupted in Hawaii.

Activities

1. Students do image searches using the technology printable. Students can type a word or sentence under each picture.
2. Directions to make a paper mache volcano. <https://www.thesprucecrafts.com/paper-mache-volcano-1253091>

General Tips: The goal is to build background knowledge while leading an engaging discussion on any and all information that can be talked about on a given page. The items that you choose to bring up or focus on can be modified for the students you are working with. For example, if you have a student who can point to something in the picture, answer yes/no questions be sure to incorporate a lot more of that as you go through the book. On the same token, be sure to ask a lot of comprehension questions and critical thinking questions at the level appropriate for students. There is something for everyone.

Page 1: Hawaii is a state. It is in the United States. Point to Hawaii. Hawaii is a state and all of the islands are part of that state. It is in the Pacific Ocean. Point to the islands. Count the islands. There are eight major islands, but there are a lot of little ones. There are 132 total. Only 7 of them have people living on them. Have students view the following video to learn about Hawaii. Pause periodically to point and ask questions. <https://www.youtube.com/watch?v=klquB6gUHeo>

Pointing Questions: Hawaii, Big Island, Pacific Ocean, United States

Short Answer: What is the state in the Pacific Ocean called? How many islands are there in Hawaii? What is the big one called? What ocean is all around Hawaii?

Yes/No: Is Hawaii a state? Is Hawaii in the Pacific Ocean? Are there 5 islands? Are there 8 islands?

Sharing opinion/experiences: Have you ever been to Hawaii? Would you like to go to Hawaii?

Peer to Peer Interaction: After you read Page 1, ask students, "What is the state in the Pacific Ocean called?" The answer is the main idea card "Hawaii." Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about Hawaii.

Page 2: A volcano is a special mountain that has magma inside of it. Sometimes the magma turns into lava and comes out. That is when it erupts. Erupts means explodes. There is a volcano on the Big Island called Kilauea Volcano. It erupted last year.

Point: volcano, fire, lava, May 3rd

Short Answer: What erupted? Where did it erupt? When did it erupt? What is the date today? What flows out of the volcano? Have students view the following video about the Kilauea Volcano. Pause periodically to ask questions and to have students point to features in the video. view a video about Kilauea Volcano. <https://www.youtube.com/watch?v=888nbjvkNts>

Yes/No: Did a volcano in Hawaii erupt? Did it erupt yesterday? Did it erupt on May 3, 2018?

Sharing opinion/experiences: The volcano erupted in May. Do you know anyone who has a birthday in May?

Peer to Peer Interaction: After you read Page 2, ask students, “What erupted?” The answer is the main idea card “Kilauea Volcano.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about the Kilauea Volcano.

Page 3: The hot lava flowed out of the volcano. It flows like a river. It is hot, melted rock. It comes out of the ground. It sometimes shoots up high into the sky when it comes out of the volcano. Ash and gases also erupted out of the volcano.

Pointing Questions: red hot lava flowing, fire, smoke

Short Answer: What comes out of a volcano? Is the lava hot?

Yes/No: Does water come out of the volcano? Does lava come out of the volcano? Does gas come out of the volcano? Does ash come out of the volcano?

Sharing opinion/experiences: Would you like to be close to a volcano when lava, ash and gases are erupting out of it? How do you think it would feel to be close to a volcano that is erupting lava, ash, and gases? What would you do?

Peer to Peer Interaction: After you read Page 3, ask students, “What comes out of a volcano?” The answer is the main idea card “lava, ash, and gas.” Students will find the main idea card and read it to their partner. Teacher will prompt them talk about what comes out of a volcano.

Page 4: It not safe to be near a volcano when it is erupting? People who live near the volcano in Hawaii evacuated. That means that they left their homes and drove away from the volcano. They went somewhere safe that was away from the volcano. Have students view the following video showing the volcano and the reasons why people are evacuating. <https://www.youtube.com/watch?v=ic7r4q23VEg>

Pointing Questions: car, road, volcano, person running away.

Short Answer: What did people who lived near the volcano do? What does evacuate mean?

Yes/No: Is it safe to stay near a volcano when it is erupting? Did people evacuate?

Sharing opinion/experiences: Why do you think a volcano is dangerous? Evacuate means that you have to move away to somewhere safe? How do you think the people who lived near the volcano felt when the volcano erupted? How do you think they felt about having to evacuate? If you had to evacuate your home, what would you take with you?

Peer to Peer Interaction: After you read Page 5, ask students, “What did people near the volcano do?” The answer is the main idea card “evacuate.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about what the people near the volcano do. Talk about how you would feel if you had to evacuate your house.

Peer to Peer Interaction: After you read Page 4, ask students, “What flows down the side of a volcano like a river?” The answer is the main idea card “lava.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about lava. What color is it? What is lava made of?

Page 5: The hot lava flowed out of the volcano. It flows like a river. That means that it moves like water moves down a river. Lava is hot, melted rock. It comes out of the ground. It sometimes shoots up high into the sky when it comes out of the volcano. Then lava will flow lands on the ground. Have students view the following video showing the lava flowing. Pause periodically to discuss and to have students point to the lava. <https://www.youtube.com/watch?v=hyE2NO7HnU>

Pointing Questions: red hot flowing lava

Short Answer: What comes out of a volcano? What flows down the sides of a volcano? What color is lava? What does lava flow like?

Yes/No: Is the lava hot? Is lava melted rock?

Sharing opinion/experiences: What do you think would happen if you touched lava with your hand?

Page 6: The lava flowed down the mountain and flowed into the road. The lava was very hot. People could not walk or drive on the roads where the lava flowed. Have students view the following short news video showing the lava erupting and the damage that it has caused.

<https://www.youtube.com/watch?v=xOS0IOhKjPo>

Pointing Questions: road, lava, people

Short Answer: Where did lava flow across? What crossed the road?

Yes/No: Is lava hot? Did lava flow across some roads in Hawaii?

Sharing opinion/experiences: Do you think people could drive on the roads where the lava was? What would you do if you were driving down a road and saw lava? How would you feel is you saw lava flowing across a road?

Peer to Peer Interaction: After you read Page 6, ask students, “Where did some of the lava flow across?” The answer is the main idea card “roads.” Students will find the main idea card and read it to their partner. Teacher will prompt students to talk about the lava flowing across the road.

Page 7: There are a lot of gases that come out of a volcano. The gases smell terrible! They smell like rotten eggs. Rotten eggs are eggs that are old and no longer good to eat. The gases are also not safe to breathe. That is one of the reasons why people near a volcano evacuate. Have students view the following news video about the harmful effect of the volcano that erupted in Hawaii.

<https://youtu.be/hOjOQ0JIBZY>

Pointing Questions: gases, eggs

Short Answer: What do the volcanic gases smell like?

Yes/No: Do volcanic gases smell like flowers? Do volcanic gases smell like rotten eggs? Is it safe to breathe the gases that come out of a volcano?

Sharing opinion/experiences: Do you think the gases that come out of a volcano would smell good or bad?

Peer to Peer Interaction: After you read Page 7, ask students, “What does the gas that comes out of a volcano smell like?” The answer is the main idea card “rotten eggs.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk what the volcanic gases smell like.

Page 8: Lava is very hot. When the lava flowed down the volcano, it moved towards houses. 700 houses burned down in Hawaii. That is a lot of houses!

Point: house, fire, trees, smoke

WH Questions: What did the lava burn down? How many houses burned down in Hawaii?

Yes/No: Did the lava burn down houses? Did a lot of houses burn down in Hawaii?

Sharing opinion/experiences: Have you ever seen a house on fire? How would you feel if your house caught on fire?

Peer to Peer Interaction: After you read Page 8, ask students, “What did the lava burn down?” The answer is the main idea card “houses.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about what the lava burned.

Page 9: The hot flowing lava will start to cool off. When the lava cools off, it turns into rock again. It becomes volcanic rock. Volcanic rocks are made from lava. Have students view the following video showing volcanic rocks in Hawaii. https://www.youtube.com/watch?v=Yf_S3ex8BNI

Pointing Questions: lava rocks, Pacific Ocean

Short Answer: What does the lava turn into when it cools down? What color is the lava rock?

Yes/No: Does the lava ever cool down? Does the lava turn into water when it cools down? Does the lava turn into rock when it cools down?

Sharing opinion/experiences: How do you think lava rock feels?

Peer to Peer Interaction: After you read Page 9, ask students, “What does lava turn into when it cools down?” The answer is the main idea card “rock.” Students will find the main idea card and read it to their partner. Teacher will prompt them to talk about lava rock.