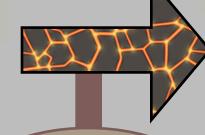
VOLGANOES

Learning Objective: To explore what happens when a volcano erupts.





That's right! The images were showing volcanoes erupting!

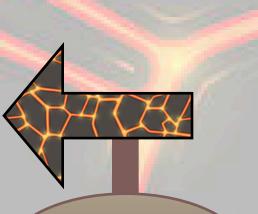


What happens when a volcano erupts and why do they erupt? Think, pair, share



Let's talk about the Earth's structure. That will help you understand how volcanoes erupt.

The Earth is made up of different layers. The Crust The Mantle The Outer Core The Inner Core

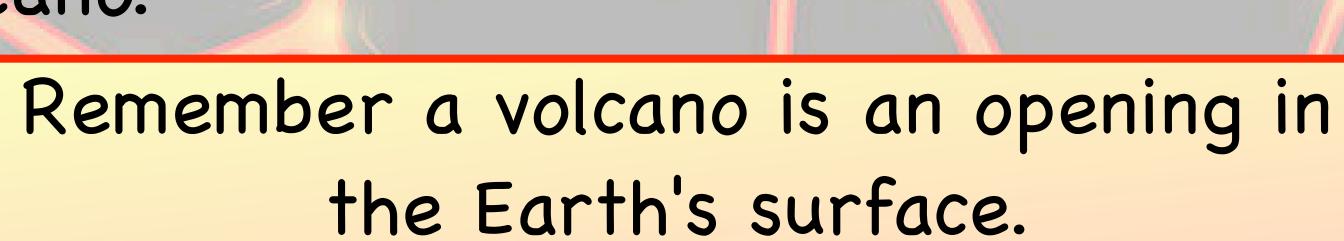


The MANTLE is made up of magma (gases and liquid rock). This becomes lava.

This is how a volcano erupts:

Firstly, magma rises through cracks in the volcano.

Then, pressure builds up inside the volcano.



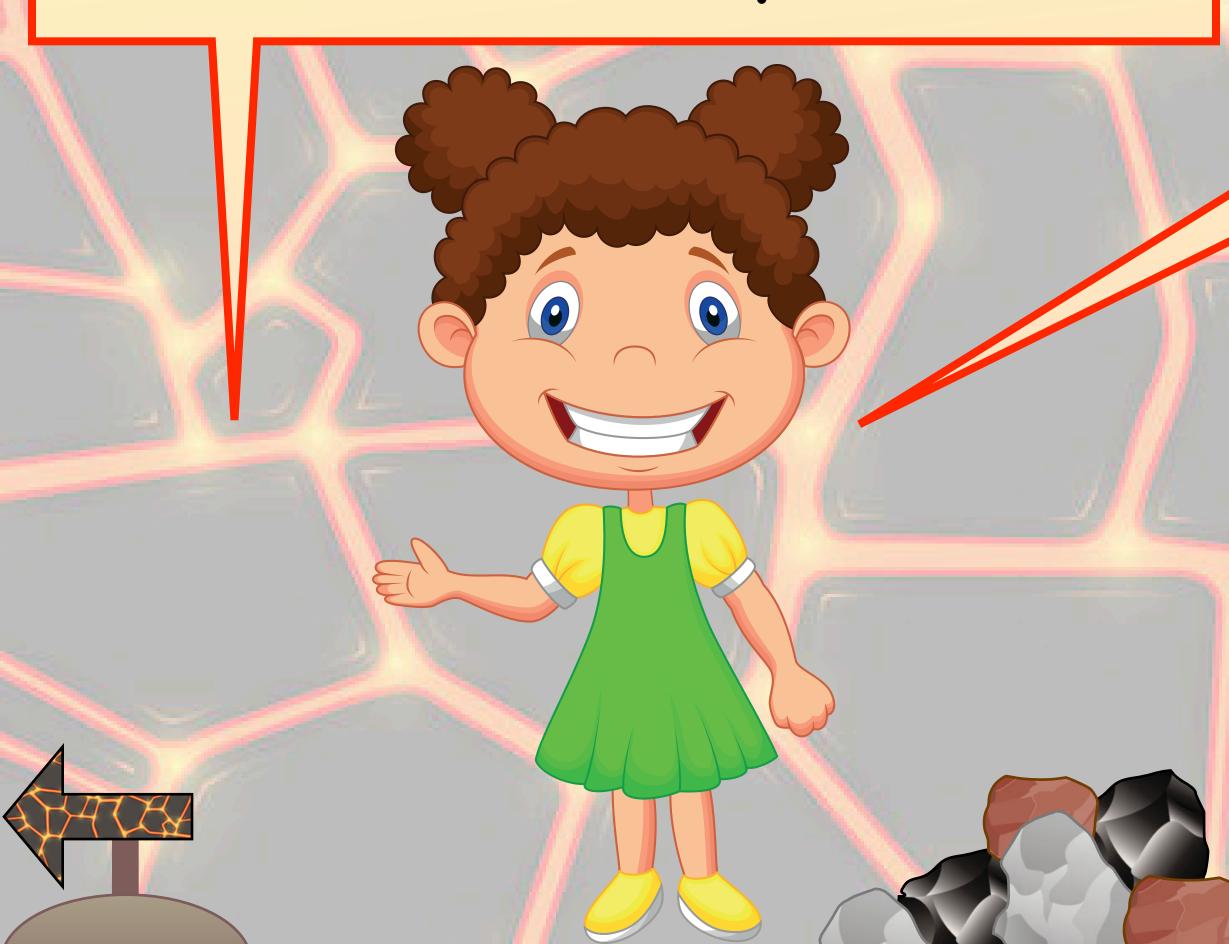
The magma then explodes out of the volcano (this is known as lava).

When the lava cools it forms new crust/rock and the volcano becomes bigger.



Magma is the reason volcanoes erupt. If there is too much magma in the volcano chamber (this causes extreme pressure) it will erupt. The pressure needs to escape.

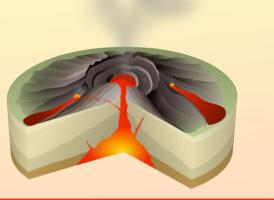
Did you know there are many different types of volcanic eruptions?



What do you think they are? Talk to a partner about them!

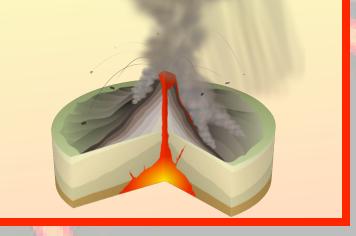
Here are some types of volcano eruptions.

Hawaiian Eruption



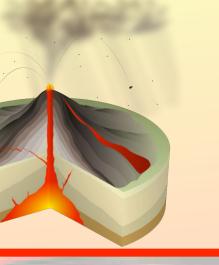
Strombolian Eruption

Pelean Eruption

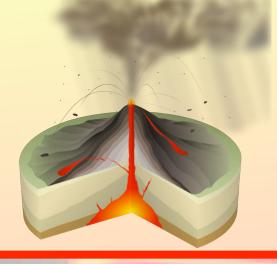


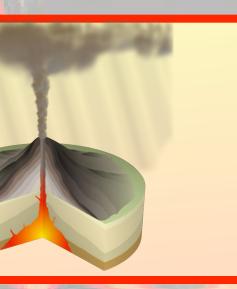
Plinian Eruption

Submarine Eruption



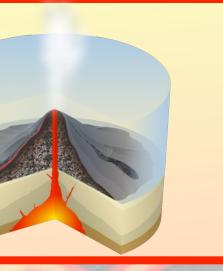
Vulcanian Eruption





Surtseyan Eruption





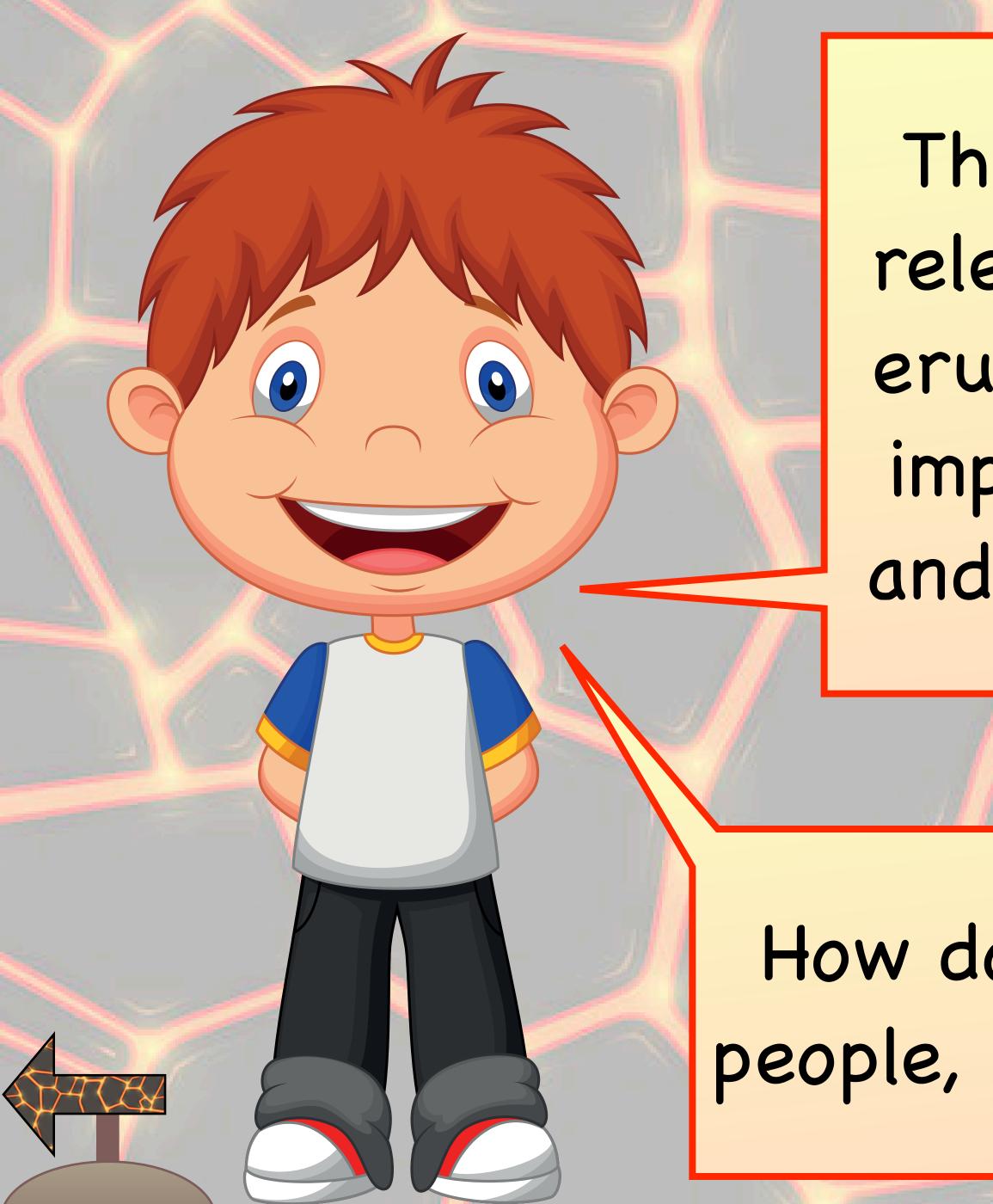
Harmful substances are released from volcanoes when they erupt.











The harmful substances released during a volcano eruption can have a huge impact on human, animal and plant life in the area.

How do volcanoes affect people, plants and animals?

Volcanic ash and gas is very dense. When released, it can make it hard for people, animals and plants to breathe. Lava flows can destroy people's homes and forests around the volcano base. They can also cause fires.

This town is built at the base of a volcano. Ash and mud can mix with rain and melting snow, which creates mud flows that can quickly destroy the land.



The people of this town live here for a reason. The volcano could cause problems for the people and their houses.





What would you do if you were near an erupting volcano?

> How would you survive?

Think, Pair, Share

Plenary

The magma then explodes out of the volcano (this is known as lava).

Then, pressure builds up inside the volcano.

When the lava cools it forms new crust/rock and the volcano becomes bigger.



Firstly, magma rises through cracks in the volcano. Can you put these in order? Can you explain how a volcano erupts?

0

Plenary

The magma then explodes out of the volcano (this is known as lava).

3

2

Then, pressure builds up inside the volcano.

When the lava cools it forms new crust/rock and the volcano becomes bigger.



Firstly, magma rises through cracks in the volcano.

Did you get the answer correct?