



Lava can reach temperatures of up to 1 250 °C! It has the ability to burn everything in its path including glass.



There are 9 extremely active volcanoes in the world that are likely to explode again!



In 1883, Mount Krakatau in Southeast Asia erupted, releasing 200 megatons of energy, which is equivalent to 15 000 nuclear bombs!



1 in 20 350 million people in the world lives within an active volcano area as the soil is known to be rich and fertile.

*Did You Know?*

2 of the most active volcanoes are located in Asia.



Mount Merapi, Indonesia

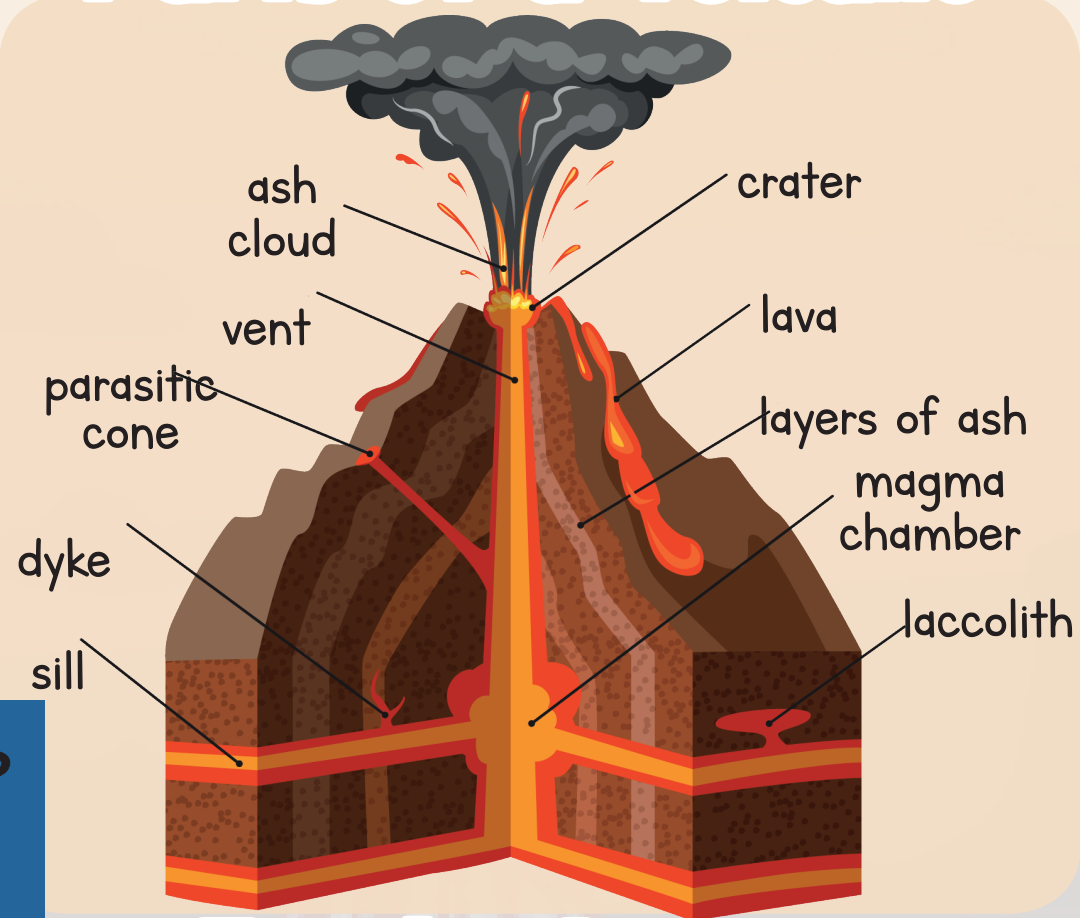


Taal Volcano, Philippines

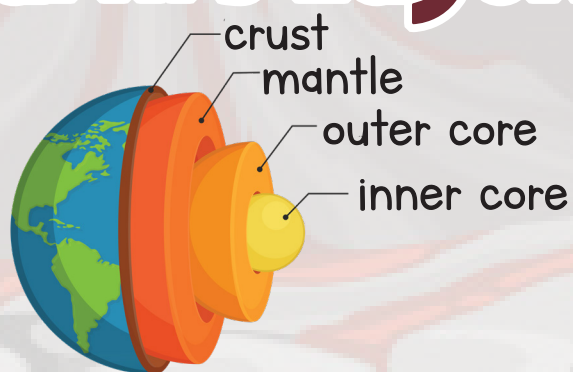
During a volcano eruption, heat energy is transferred through the lava onto the surface of Earth. Deep within the Earth lies molten rocks, debris and gases that shoot up through such volcanoes in the form of lava. Volcano eruptions are known to be one of the world's most spectacular natural events.



# Parts of a Volcano



## Earth's Layers



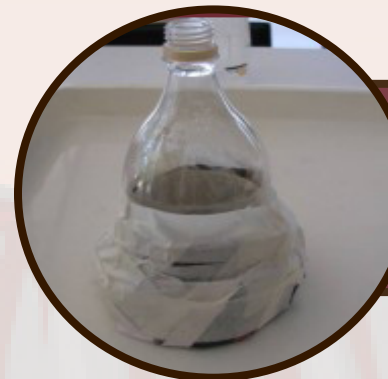
Beneath Earth's tectonic plates lies the mantle. It is made up of mostly magma, or melted rock. Under the mantle is Earth's inner and outer core. Earth's plates float on the mantle. They constantly shift and move. Some plates collide and slide past each other while other plates pull apart. When these plates shift, magma can shoot out of the Earth as lava.

Things You Will Need:



# BLOW O LAVA

Discover the processes involved in a volcano eruption as we learn more about these amazing geological formations. Let us mimic the eruptions of a volcano using recyclable materials and ingredients in this exciting experiment.



Cut a plastic bottle in half. The top half will be used to form the basic shape of the volcano. Tear up old newspapers into long strips.

Dip the long strips of old newspaper into a mixture of glue and water, and stick them around the plastic bottle.



After the volcano has been set to dry and painted to look like a volcano, pour 4 tablespoons of baking powder into the volcano (plastic bottle).

Mix 1 cup of vinegar with a few drops of red food colouring. Pour the mixture inside the volcano and watch the volcano erupt!

As the baking soda and vinegar reacts together, the 'red hot lava' fizzes and froths out of the volcano causing the 'eruption'.

