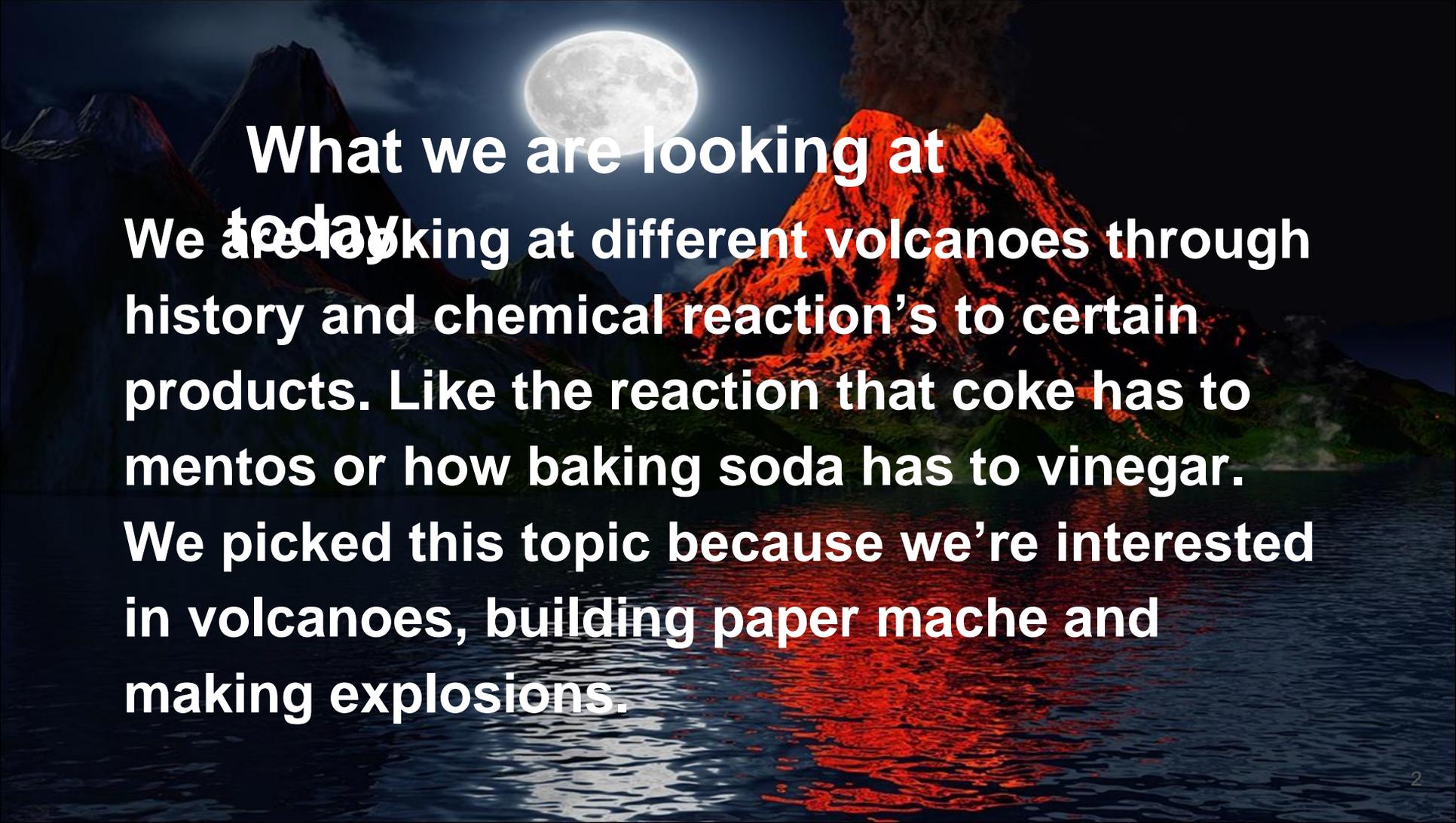


# Volcanoes

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*6<sup>th</sup> Class*





**What we are looking at**  
**We are today** looking at different volcanoes through history and chemical reactions to certain products. Like the reaction that coke has to mentos or how baking soda has to vinegar. We picked this topic because we're interested in volcanoes, building paper mache and making explosions.

# What is a volcano

- A volcano is a mountain that has a vent in it, which lava and rock fragments can erupt through to the earth's crust. Magma (lava underground) is hot fluid or semi-fluid material below or within the earth's crust.
  - A volcano erupts when magma rises to the surface. If magma is thick gas bubbles cannot escape, this causes pressure to build. When the pressure gets too high the volcano erupts.
  - Some eruptions are caused by landslides. In the Rocky mountains a mountain that was thought to be extinct erupted due to a landslide.
  - Not all volcanoes have lava. In fact the largest volcano eruption was mostly volcanic ash.
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This is Mt.  
Tambora. It  
was the  
largest  
volcano  
eruption ever  
it killed about  
71,000  
people.



# Mt. Tambora



Mt tambora is known to have killed the most people and it has claimed to have taking over 71,000 lives and was over 4,450M high but after the eruption it went down to 2,850M high. The last time Mt. Tambora erupted was in 1967. Mt. Tambora is still active to this day and who knows it could erupt again. In 1815 Mt. Tambora had its biggest eruption and is known as the biggest volcano eruption to this day. In 1815 Mt. Tambora eruption spread volcanic ash around the world and actually created tsunamis and earthquakes.

# Mt. Kilauea



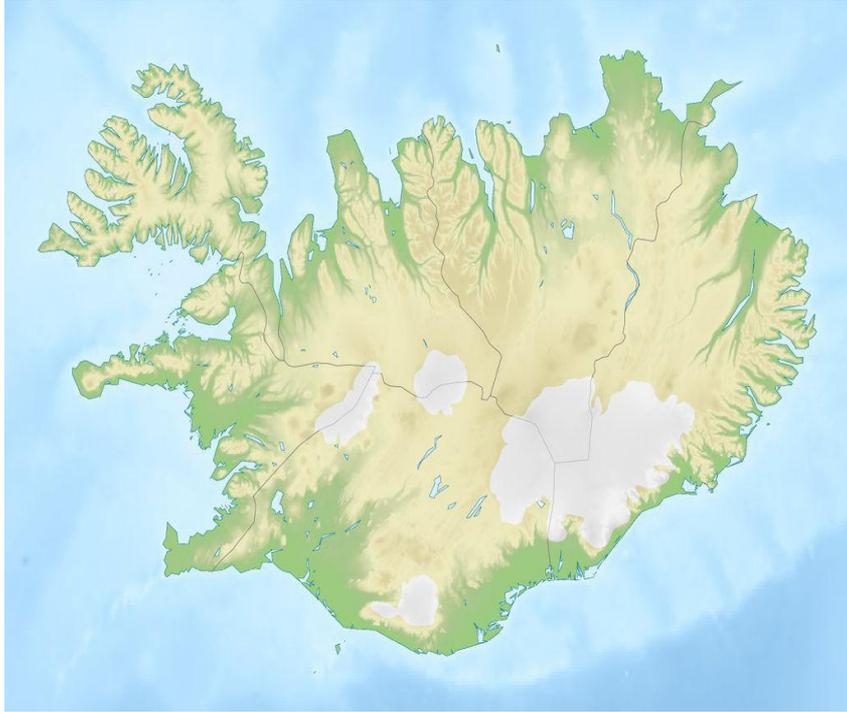
Mt. Kilauea is the longest erupting volcano ever! It is in Po'o crater in Hawaii. It is erupting right now as we speak. It has been erupting for almost one hundred years. Since it is continually erupting it doesn't make very big eruptions. It's more like boiling water, it creates bubble that pops and sends lava around 6ft away( depending on the size of the bubble. Even though it isn't a very big eruption I wouldn't recommend you go there.

# Mt. St. Helens



**Mt. St. Helens was probably the strangest volcano eruption. Mt. St. Helens erupted on the 10th of July 2008. Although it only killed about fifty people it still was a deadly volcano. It was just a normal day until a landslide took out the south side of the volcano, exposing volcanic ash that was building up inside for over 100 years. The more the pressure the more deadly the eruption.**

Not all volcanoes are bad.



**When I say volcanoes you might think explosion and doom. But some volcanoes can actually create islands. The largest island created by a volcano is Iceland it is 103,000 km<sup>2</sup>, that's bigger than Ireland!**

# What we needed to make our volcano.

## Ingredients:

You will need glue,           Masking tape

Newspaper,                    A funnel

A bottle with a 35ml cap, And paint

Now for the explosion you will need:

Red and yellow food coloring

Vinegar

Dishwashing soap

Baking soda



# How we made our volcano

## How to make the volcano

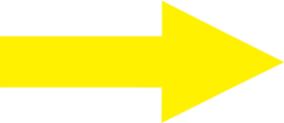
1. Get your flat piece of cardboard and start glueing your newspaper to the cardboard.
2. When it has dried using masking tape stick your bottle to the box until strong.
3. Scrunch up balls of newspaper and stick it to the bottle.
4. Paper mache all around your bottle.
5. Then paint your volcano and decorate it. We used dinosaurs!

## How to make the explosion

1. Add 2 spoonfuls of baking soda
2. Add about a spoonful of dishwashing soap
3. Add 5 drops of red and 2 drops of yellow food coloring
4. Add about an ounce of vinegar

And now you should see your volcano come to life

# How did the chemicals we put in explode

When we put the baking soda in it mixed with the vinegar and made it erupt and when we added the dishwashing soap it made it bubbly and then the food coloring made it look like lava. Hopefully our volcano looks like this... 



Thanks and i hope you enjoined are volcano experiment  
( if you want to see a cool video please click here).

<https://www.youtube.com/watch?v=l-FQgWaZUmE>

