

Science Experiment Report

Class 4 students! Today we're going to make a fun and cool volcano experiment!

****Experiment: Dancing Volcano****

****Aim:**** To create a model of a volcano that erupts with a fizzy reaction.

****Materials:****

* Baking soda

* Vinegar

* Clay or modeling dough

* Food coloring (optional)

* Dish soap (optional)

****Procedure:****

1. Create a volcano shape using clay or modeling dough around a small container or plastic bottle.
2. Cut the top off the container to create a crater.
3. Mix 2-3 tablespoons of baking soda with 2-3 tablespoons of water to make a thick paste.
4. Pour the baking soda paste into the crater of the volcano.
5. Add a few drops of food coloring to the mixture (if using).

6. Pour vinegar slowly into the crater.

7. Stand back and watch as the "volcano" erupts!

****Scientific Principle:****

When you mix baking soda (sodium bicarbonate) with acid (vinegar), it creates a chemical reaction that produces carbon dioxide gas. This gas builds up pressure and eventually causes the "volcano" to erupt! The dish soap helps create more foam, making the eruption even more fun!

****Safety Precautions:****

1. Make sure to conduct the experiment on a flat surface and away from any breakable objects.
2. Wear old clothes or an apron to protect your clothes from stains.
3. Avoid getting vinegar or baking soda in your eyes or mouth.
4. Don't pour the mixture down the drain, as it can cause blockages.

Are you ready to create a dancing volcano? Let's get started!