

Making Your Own Volcano!



Make sure to do this with a responsible adult!

Materials

- Cup/empty water bottle
- Baking soda (about ½ cup)
- Vinegar (about ½ cup)
- Food coloring
- Dish washing soap (1 tablespoon)
- Playdoh/clay
 - *To make your own clay you need:*
 - Flour [6 cups]
 - Water [2 cups]
 - Vegetable oil [4 tablespoons]
 - Salt [2 cups]

Procedure

1. Making the clay
 - a. Pour the salt, flour, and oil into a bowl then mix them up. Make sure to break up all big clumps
 - b. Add 2-3 drops of food coloring to water if wanted, then add water to the bowl.
 - c. Mix and knead the ingredients with your hands until a dough is formed. Make sure the clay is neither too watery nor too dry (if it is dry add a tablespoon or so of water, if too wet add a little bit more flour).
 - d. Let the dough dry for 1-2 hours before shaping (want it to be wet enough to work with but not so dry that it crumbles), add water if needed (but not too much).
2. Lay down wax paper newspaper, or any other lining on a tray or box to make the volcano on.
3. Put the container (either a small cup or cut water bottle) in the center of your volcano.

4. Place your clay around the cup to form the shape of the volcano.
5. Allow to dry slightly for a 4-5 of hours or bake until dry in the oven at a low heat (40 min – 1 hr at 225F) (make sure you get your parents help!).
6. When it is dry, feel free to paint it or decorate it how you want!
7. Take a picture of your volcano here!
8. Put the baking soda in the volcano
9. Prepare the vinegar and add food coloring and dish soap to the vinegar (dish soap makes the lava extra bubbly!)
10. Add the vinegar mix to the container and step back and take a picture of your erupting or erupted volcano!
11. Send in your pictures to robotics@up.edu with your name and grade!