

HOW TO BUILD YOUR OWN VOLCANO

Materials for each group of 3 (Day 1):

- 1 - Square of cardboard: approximately 60cm by 60cm (Cut from boxes)
- 1 - Plastic bottle (Drink or pour out the water first)
- Scissors
- Many - Strips of newspaper: approximately 2cm wide
- 1 - Bowl for mixing
- 2 Cups - Flour
- 2 Cups - Water
- Masking tape

Directions: (Day 1)

- #1 Cut a piece of cardboard out (Approximately 50cm x 50 cm)
- #2 Place the EMPTY water bottle in the center of the cardboard.
- #3 Cut-out and run strips of cardboard attached with masking tape from the top of the bottle to various points near the edge of the cardboard. Try to make them equal distant from the bottle. This will be your skeleton structure that your paper Mache will attach to. (See Picture)



- #4 Cut-out many strips of newspaper (approximately 2 cm wide).
- #5 Mixing evenly with your hands, make a bowl full of Plaster using EQUAL parts Flour to Water, using 1 – 2 Cups of each, depending on the size of your Volcano. **The paste should have the same consistency as glue.**
- #6 Dip the strips of the newspaper into the mixture, fully coating them. Then run the strip between your 2 fingers to take off any excess mixture. Drape the strips on top of the skeleton structure you built with the cardboard to start creating you Volcano.

- #7 Continue this process until the Volcano has taken the shape you would like.
- #8 Once the whole thing has been covered to your liking, let it dry overnight.
- #9 Return all supplies and **Clean, Clean, Clean, Clean, Clean, Clean!!!!!!**
Bowls, lab tables, measuring cup, etc!

Materials for each group of 3 (Day 2):

- Brown, green, and red paint
- Brush for paint
- $\frac{1}{4}$ Cup - Baking Soda
- $\frac{1}{2}$ Cup - Vinegar

Directions: (Day 2)

- #1 Paint your volcano with a brush, using a combination of colors provided (Red, Brown, and Green)
- #2 Give your Volcano some time to dry.
- #3 ***Put on your Safety Glasses!***
- #4 Next, pour **$\frac{1}{4}$ Cup** Baking Soda into your Volcano (Make a funnel out of paper if needed to get the baking soda in your Volcano without spilling).
- #5 Then, pour **$\frac{1}{2}$ Cup** Vinegar into your Volcano.
- #6 The baking soda and vinegar will react causing your Volcano to erupt!
- #7 Return all lab supplies and **Clean, Clean, Clean, Clean, Clean, Clean!!!!!!**
- #8 As a group, decide who wants to take the Volcano home, or discard your Volcano in the dumpster outside.