



FUN WITH SCIENCE

Base/Acid Reaction Volcano

MATERIALS NEEDED:

- Plastic cup
- Water
- 4-5 Tablespoons baking soda
- 1 teaspoon dish soap
- ½-2 ounces washable paint
- 1 cup vinegar

PROCEDURE:

1. Pour the water to 2/3 full into the cup. Add the baking soda, dish soap and paint.
2. Mound pea gravel, sand or dirt to make the mountain. Place the cup on top or dig a hole in the center to place it in to create a cone.
3. Stir the mixture in the cup.
4. Add vinegar until the solution is erupting.

The baking soda is **bi-carbonate** and is a base. The vinegar is **acetic acid** in a diluted form. They react to release OH (oxygen & hydrogen) and H (hydrogen) to form H₂O (water). But they also release CO₂ (carbon dioxide). This makes the solution bubble and expand similar to shaking a can of soda and then opening it!