LEMON VOLCANOES

SUPERNOVA
DALHOUSIE UNIVERSITY | HALIFAX, NOVA SCOTIA

EXPLORING HOW ACIDS AND BASES REACT WITH KITCHEN MATERIALS!

MATERIALS

7 <-- (total materials here)

- 1/2 Lemon
- 1 Popsicle stick
- 1 Spoon
- 3 tbsp Baking soda
- 1 pack Food colouring
- 3 Drops dish soap
- 1 Plate

(time of whole activity here -->)

15 MINS

PROCEDURE

Step 1
Using the Popsicle stick, poke holes in the flesh of the lemon.

Step 2
Drip the food colouring into the holes on the lemon

Step 3
Using the spoon, sprinkle some baking soda over the flesh of the lemon.

Step 4
As the reaction occurs, drip some dish soap on the mixture to create more bubbles.

Step 5
Watch as the reaction occurs. If bubbling/fizzing stops, add some more baking soda and see what happens.

A NEUTRALIZATION REACTION HAS OCCURRED BETWEEN AN ACID AND A BASE!

PURPOSE & SCIENCE OUTCOMES

- A neutralization reaction is the reaction that occurs between an acid and a base.
- The fizzing is due to the acidic lemon and basic baking soda reacting to form a neutral substance.
- Acids and bases are very important concepts in various STEM fields
- Try out our Cabbage Patch pH activity to explore acids and bases more!

ANY QUESTIONS? REACH OUT @SUPERNOVAATDAL