

# Volcano Blast!

## Procedure

- 1. Collaborate** Work in small groups to build a volcano. Place a plastic cup on a flat surface. Use modeling clay to build a volcano around the cup. Leave an opening in the volcano, directly over the opening in the cup.
2. Place grass, leaves, and twigs around the sides of the volcano. Stand some of the twigs up to look like trees.  
**Safety:** Wear goggles during this activity.
3. Carefully put 2 spoonfuls of the baking soda into the cup. Add 1 drop each of red and yellow food coloring. Use a dropper to add 6 drops of dishwashing detergent. Stir the mixture.
4. **Observe** Pour 125 mL of vinegar into a metric measuring cup. To cause your model volcano to “erupt,” slowly add the vinegar to the mixture. Record your observations on the lines below.

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## Conclusion

Write the answers to the questions below.

1. **Use Models** What happened to the grass, leaves, and twigs on the sides of the volcano during the eruption?

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2. **Hypothesize** How do you think a real lava flow would affect the land near a real volcano?

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## Investigate More!

**Design an Experiment** Use more modeling clay to change the shape of the volcano. Then cause the volcano to erupt again. How does the shape affect the lava flow?