



# STEM CHALLENGE

## Cookie Cutter Chemistry

**Challenge:** What will happen when baking soda and vinegar are combined inside a holiday cookie cutter?

### Materials:

- Holiday Cookie Cutters
- Baking Soda
- White Vinegar
- Food Coloring
- Glitter (optional)
- Eye Droppers
- Cookie Trays/Bins/Mini aluminum loaf pans  
(anything to catch the overflow will work)



### Instructions:

- ✓ Create a plan and decide what steps to follow.
- ✓ Test your plan.
- ✓ Document and explain your results.

### Submission:

- ✓ Please PONY your submission to the **STEM Resource Center**.
- ✓ Please submit your drawing/pictures and answer to the challenge question to us by mail, GST Pony, or email to **STEM Resource Center, 3153 Lake Road Horseheads, NY 14845** or [stem@gstboces.org](mailto:stem@gstboces.org)
- ✓ **Please make sure that your submission has your name, teacher name, school district, grade level and return address included.**
- ✓ **Due Date: Friday, January 5, 2018**

## STEM Challenge – Cookie Cutter Chemistry

Name \_\_\_\_\_ School District \_\_\_\_\_

Grade \_\_\_\_\_ Teacher \_\_\_\_\_

**Challenge:** What will happen when baking soda and vinegar are combined inside a holiday cookie cutter?

**Plan:**

Steps to Follow (be specific):

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**Results:**

Describe the results you observed when you carried out your plan. Why do you think you observed these results?

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