

QUICKLAB

FOAM IN A CUP



Purpose

To observe what happens in a simple chemical reaction

Procedure

- 1 Pour 30 mL of corn syrup into a 250-mL beaker. Stir in 3 drops of one food colouring. Sprinkle 20 mL of baking soda on the corn syrup.
- 2 Tip the beaker slightly and carefully pour in 30 mL of water down one side. Add 30 mL of vegetable oil to the beaker in the same way.
- 3 Into a separate beaker, pour 20 mL of vinegar and add 3 drops of the other food colouring.
- 4 Fill the eyedropper with coloured vinegar. Squeeze 3 drops of coloured vinegar into the beaker containing the other substances. Record your observations. Repeat if necessary.
- 5 Push the eyedropper down to the bottom of that beaker, and release all the vinegar by squeezing the bulb of the eyedropper. Record your observations.

Questions

- 6 Describe how your observations were different in steps 4 and 5.
- 7 Work with the rest of the class to explain what is going on in the activity.

Materials & Equipment

- graduated cylinder
- 30 mL corn syrup
- two 250-mL beakers
- two different colours of food colouring
- stirring rod
- 20 mL baking soda
- 30 mL water
- 30 mL vegetable oil
- 20 mL vinegar
- eyedropper



Focus On

THE NATURE OF SCIENCE

In this unit, you will be asked to observe how matter changes and interacts with other matter. You will collect evidence of changes by:

- investigating the properties of matter
- interpreting observations and data from experiments
- creating and interpreting models

Think about the following questions while you study how our understanding of matter and its interactions has developed. The answers to these and other questions about matter will help you understand the interactions among substances.

1. **How do we determine the properties of a variety of different substances?**
2. **How do different substances interact?**
3. **What evidence can be used to indicate that an interaction between substances has occurred?**