

# Chase's Crazy Canola Crafts and Science Experiments

## Light It UP!!! <sup>8</sup>

What do you think happens when we mix together canola oil, water, and effervescent antacid tablets? With the help of an adult, find out what happens by trying out this glowing bubblicious experiment.

Wow! Effervescent antacid tablets are some big words! An effervescent antacid tablet is a type of medicine that an adult might take if they have a stomachache.

### Materials:

- 1 sandwich sized sealable sandwich bag
- ½ cup water (125 mL)
- Food colouring of your choice
- 1½ cups canola oil (375 mL)
- Effervescent antacid tablet (or any similar antacid tablet that contains 1000 mg citric acid and 1916 mg sodium bicarbonate)
- Highlighter (optional-to make the bubbles glow)
- Paper towel (optional)
- Black light (optional)

### Instructions

1. Make a prediction about what might happen when you mix canola oil, water, and effervescent antacid tablets (provide a best guess based on some research from talking to adults).
2. Gather your materials.
3. Pour the ½ cup of water into a sealable sandwich-sized bag (avoid filling the bag beyond half its size).
4. Add two to three drops of food colouring of your choice and mix together.
5. Pour 1½ cups of oil into the bag (avoid filling the bag beyond half its size) and firmly seal the bag. Observe what happens to the oil and the water. Which substance floats to the top?
6. Break one antacid tablet into pieces (only use one tablet at a time). Drop the pieces into the bag. What do you think is happening? Why?
7. To create a glowing bubble lamp, follow steps 1-6. To make fluorescent water with a highlighter, use the highlighter (yellow or green works best) to colour a paper towel sheet until the paper towel is completely covered.
8. Soak the coloured sheet in a ½ cup of water for 15 seconds, until all the colour has been absorbed by the water and the towel is almost inkless, or a lighter shade of the highlighter colour.
9. Remove and wring out the paper towel to get as much of the ink into the water as you can.
10. Now repeat steps 2-4 with the highlighter water in place of the food colouring water. For a glowing effect, add effervescent antacid tablet pieces to the bubble lamp in a dark room. Point a black light at the bag and watch the glowing bubble lamp in action!
11. Was your prediction correct? Yes or no and why? Do you have any questions you can think of that you might like to test in the future?
12. Clean up.

**Note to adult helper:** With help for explanation see 8a in Additional Teacher/Parent Resource Page. This activity is best done with 1 person holding the baggie while the other person pours.