

# Bubble Art

## Activity Instructions

Mess-O-Meter



“Have Towels Ready”

### Materials

- Water
- Dish Soap
- Food Coloring
- Shallow Bowls or Containers
- Plastic Bottle
- Paper
- Rubber Band or Tape
- Scissors
- Netting or Mesh Material
- A Spoon or Stirring Stick

### Overview

Bubbles are a great way to investigate the properties of light! Bubbles are formed by two layers of soap molecules sandwiching a thin layer of water molecules. It's as thin as a wavelength of visible light. A wave has both peaks and troughs, and when two or more waves come together they can make new peaks and troughs. As the water molecules evaporate, the wavelengths inside the bubble change, causing it to change color!

### Procedure

1. Cut the bottom of the plastic bottle, stretch your netting over the new opening, and secure with a rubber band or tape.
2. Mix together water and dish soap or follow ScienceWorks' Bubble Solution recipe.
3. Add your choice of food coloring in separate bowls.
4. Mix in some of your bubble solution into the shallow bowls with food coloring.
5. Dip the netting opening of your bottle into the now colorful bubble solutions.
6. Blow through the mouth of the bottle over a blank sheet of paper.



### Do More Online!

Share your results with us!  
[scienceworksmuseum.org/home\\_project/](https://scienceworksmuseum.org/home_project/)

And find our Bubble Solution Recipe:  
[scienceworksmuseum.org/super-bubble-solution/](https://scienceworksmuseum.org/super-bubble-solution/)