

Deck The Halls With Science

Deck the hall with bulbs of color.

Fa-la-la-la-la-la-la-la-la

Made with ink and a solvent water.

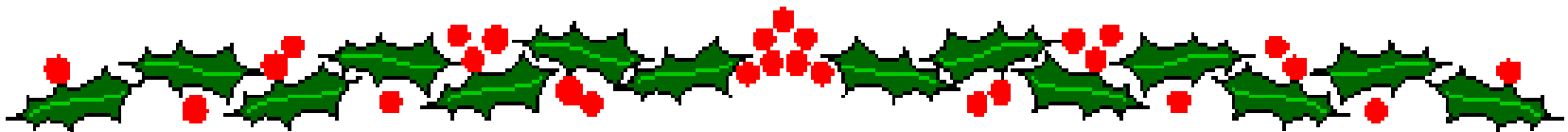
Fa-la-la-la-la-la-la-la-la

Watch the water creep up the paper.

Fa-la-la-la-la-la-la-la-la

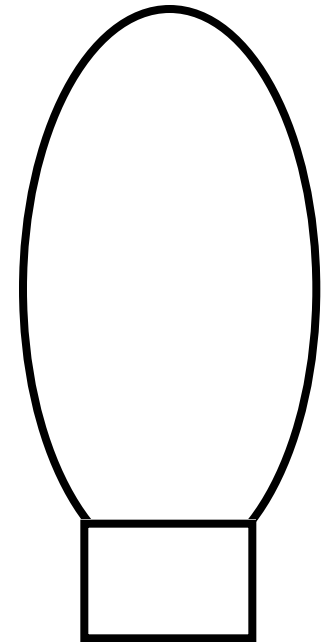
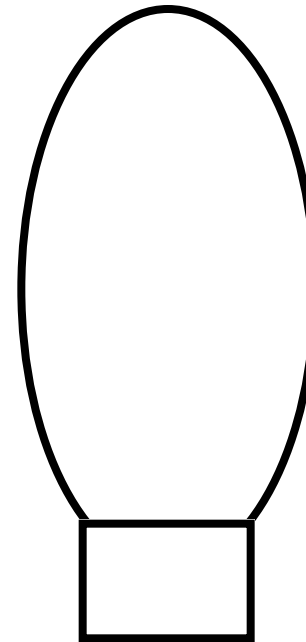
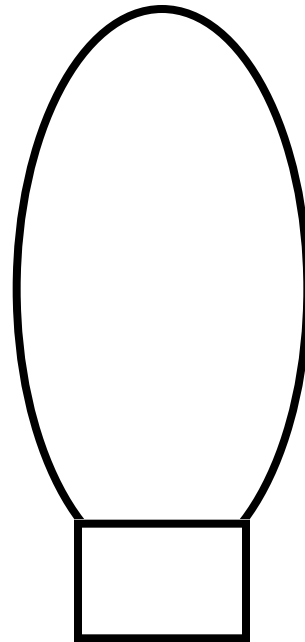
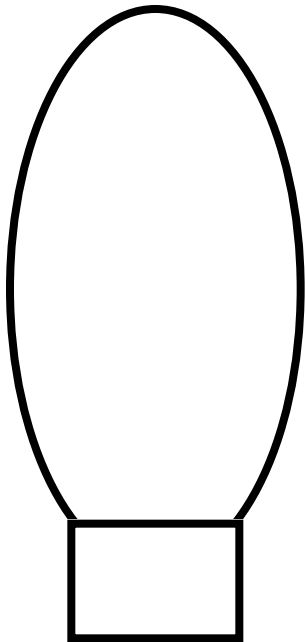
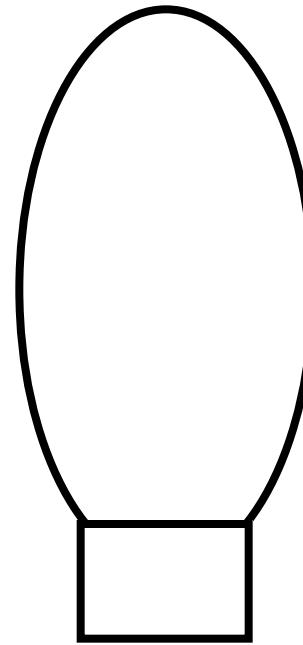
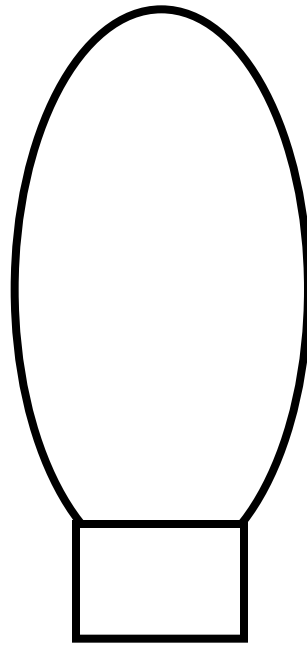
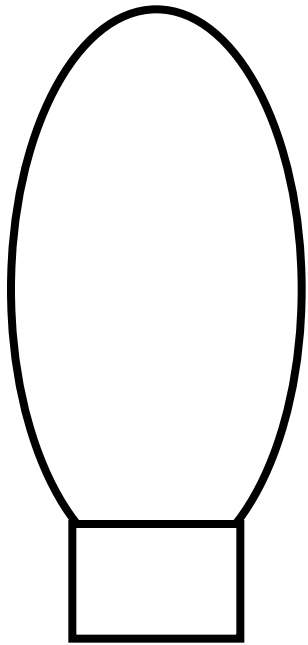
Pretty colors show their presence.

Fa-la-la-la-la-la-la-la-la



Light Bulb Patterns

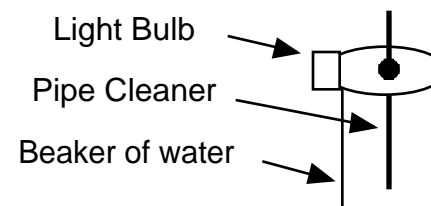
Use the patterns to create light bulb shapes out of coffee filters or regular filter paper. Use the pattern as a cutting guide. If you choose to trace the patterns, be sure to use pencil or permanent marker.



Christmas Chromatography - Lab Directions

Materials:

- Water-soluble markers - Variety of colors including black (Overhead markers work great!)
- Coffee filters or large filter papers - Use the patterns to make light bulbs
- Scissors
- White pipe cleaners (cut in half or smaller)
- Small cups or beakers

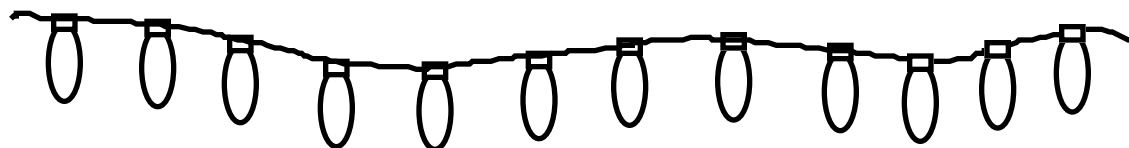
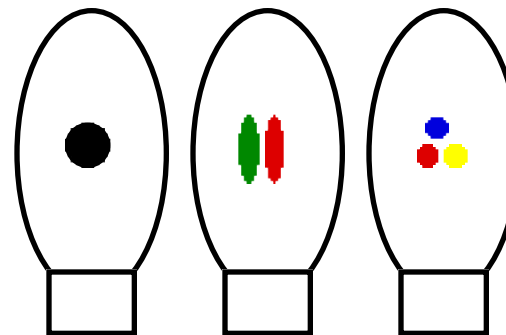


Directions:

- (1) Students should use a marker to make a small circle in the center of the bulb area. They may use two or more markers, but too many colors will cause the final product to be smeared.
- (2) One end of a white pipe cleaner should be inserted into the center of the ink dot. The other end should be placed into a container of water. The filter paper should not touch the water.
- (3) Allow time for the water to travel through the filter paper and reach the edges.
- (4) Have the students remove the pipe cleaner and place the light bulbs in an area where they can dry.
- (5) Once they are dry, tape the light bulbs to a piece of black yarn to create a string of lights. Decorate your room or hallway!

Sample Designs

Students may use one color or combine colors to decorate their light bulbs. Bullseye patterns tend to run together making it difficult to see the individual colors.



Tape bulbs to black yarn to create a string of lights!