

## Team Procedures for “Mixing and Un-mixing Colors”

Your team will need:

For each team of 3-5

- 4 clear plastic cups
- 1 -1 ml plastic pipette (eye dropper)
- red, yellow, blue food coloring
- one sheet of absorbent paper towel
- glass plate or china saucer

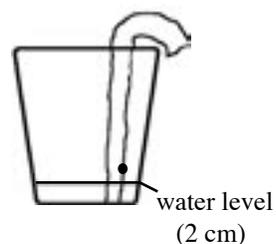
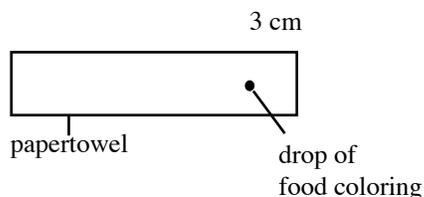
Working with your team complete the following procedures:

Part 1 Color Mixing:

1. Using the pipette, place about 5 ml of water in each of the 3 cups.
2. Add 3-5 drops of red food coloring to one cup. Repeat for yellow and blue. (If using the pipette to drop colors be sure to rinse it between colors.) Swirl each cup to mix the food coloring and the water.
3. Using the pipette, drop about 1/2 ml of one of the food color water mixtures on the glass plate. Rinse pipette. Drop 1/2 ml of another color into the first color on the plate. Mix the colors together using the tip of the pipette. Observe what happens. Record your observations.
4. Repeat procedure 3, mixing 2 different colors. Carefully record observations. To avoid test spots from running together, rinse your plate at the sink and dry it before continuing.

Part 2 Chromatography:

1. Carefully drop one drop of red, one drop of yellow, and one drop of blue food coloring together on the glass plate. (If you are using the pipette to drop the colors be sure to rinse it between colors) Mix the three drops together with the tip of the pipette. Observe the mixture. What color is it? Record your observation.
2. Cut a 3 cm strip of paper towel.
3. Using the tip of the pipette, place a small drop of the food color mixture in the center of the paper towel strip about 3 cm from one end.



4. Fill a clear plastic cup to about 2 cm deep with water.
5. Place the end of the paper towel strip with the food coloring dot into the water. (Make sure the water does not touch the food coloring.)
6. Observe for 5-10 minutes. What happened? Why? Record your observations.