

## LAB: PAPER CHROMATOGRAPHY

Paper chromatography is one way to help identify what kinds of components are present in a solution that contains unknown substances. For example, if you have a water solution of two different dyes dissolved in water, and one of them is yellow and the other dye is blue, the mixture might look as if it contains a green dye, but running a paper chromatogram might reveal that the solution actually contains a mixture of two dyes, a yellow and a blue one.

**PROBLEM:** How many colors separated from each color of ink?

**MATERIALS:** filter paper with hole in center                      filter paper wick  
cup of water    water soluble pens

### PROCEDURE:

1. IN PENCIL, somewhere close to the edge, write your names and period.
2. Draw IN PENCIL a circle of about 3 cm diameter centered as close as you can get it so that the hole ends up about in the middle of the circle.
3. ON the circle, IN PENCIL, draw an X for each pen/ marker in the cup.
4. Use the code below to mark IN PENCIL a code for each X:

|             |     |               |     |                |     |
|-------------|-----|---------------|-----|----------------|-----|
| Flair Red   | FR  | Crayola Red   | CR  | Visa-Vis Red   | VR  |
| Flair Black | FBK | Crayola Black | CBK | Visa-Vis Black | VBK |
| Flair Green | FG  | Crayola Green | CG  | Visa-Vis Green | VG  |
| Flair Blue  | FB  | Crayola Blue  | CB  | Visa-Vis Blue  | VB  |

Following the code system above, create a code for the two other colors of flair pens in your cup. Label the remaining two X's with the appropriate code.

5. Use each pen to make a small (not microscopic! Large enough to be seen easily!) solid dot on each corresponding X. When finished show your instructor for approval.
6. Fill the empty plastic cup on your table with water until it is almost to the full to the top. It is very important to dry the rim of the cup with a paper towel before proceeding any further.
7. Fold or roll filter paper triangle into a cone. Place the pointed end of the cone into the hole of the dotted piece of filter paper prepared above. The cone will serve as a water wick.  
Place the spotted piece of filter paper over the cup so that it rests on the rim with the flat end of the wick extending down into the water.
9. The water will travel up the cone to the filter paper, wetting the filter paper in a circular pattern. When the water reaches the ink spots, the radial chromatography pattern begins to develop.
10. Allow your chromatogram to develop until the water has spread to about 1 cm from the outer edge of the filter paper. This takes about 5 to 10 minutes depending on the size of the filter paper.
11. Remove the filter paper and allow it to dry. While it is drying, record in the data table the colors each ink separated into and answer the Post Lab Questions.
12. Clean your lab area, pour the water down the sink, and return all materials their original position. Turn the lab into your teacher before you leave lab.

# Paper Chromatography Lab Report Discussion

**Yicheng Fang**



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