

## 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

**Minjie Lin**



**Paper Chromatography Lab Report Discussion:**

## Enjoying the Track of Term: An Psychological Symphony within **Paper Chromatography Lab Report Discussion**

In a global eaten by displays and the ceaseless chatter of immediate transmission, the melodic elegance and emotional symphony produced by the published term frequently disappear into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **Paper Chromatography Lab Report Discussion** a stunning literary value overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed songs and profound affect resonating within each cautiously crafted phrase. Within the depths with this poignant examination, we shall explore the book is central harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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### **Table of Contents Paper Chromatography Lab Report Discussion**

1. Understanding the eBook Paper Chromatography Lab Report Discussion
  - The Rise of Digital Reading Paper Chromatography Lab Report Discussion
  - Advantages of eBooks Over Traditional Books
2. Identifying Paper Chromatography Lab Report Discussion
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Paper Chromatography Lab Report Discussion
  - User-Friendly Interface
4. Exploring eBook Recommendations from Paper Chromatography Lab Report Discussion
  - Personalized Recommendations

- Paper Chromatography Lab Report Discussion User Reviews and Ratings
- Paper Chromatography Lab Report Discussion and Bestseller Lists
- 5. Accessing Paper Chromatography Lab Report Discussion Free and Paid eBooks
  - Paper Chromatography Lab Report Discussion Public Domain eBooks
  - Paper Chromatography Lab Report Discussion eBook Subscription Services
  - Paper Chromatography Lab Report Discussion Budget-Friendly Options
- 6. Navigating Paper Chromatography Lab Report Discussion eBook Formats
  - ePub, PDF, MOBI, and More
  - Paper Chromatography Lab Report Discussion Compatibility with Devices
  - Paper Chromatography Lab Report Discussion Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Paper Chromatography Lab Report Discussion
  - Highlighting and Note-Taking Paper Chromatography Lab Report Discussion
  - Interactive Elements Paper Chromatography Lab Report Discussion
- 8. Staying Engaged with Paper Chromatography Lab Report Discussion
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Paper Chromatography Lab Report Discussion
- 9. Balancing eBooks and Physical Books Paper Chromatography Lab Report Discussion
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Paper Chromatography Lab Report Discussion
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Paper Chromatography Lab Report Discussion
  - Setting Reading Goals Paper Chromatography Lab Report Discussion
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Paper Chromatography Lab Report Discussion
  - Fact-Checking eBook Content of Paper Chromatography Lab Report Discussion

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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