

## 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

**RD Boyd**



## **Paper Chromatography Lab Report Discussion:**

**Practical Chemistry for CSEC** Norman Lambert, 1987-03-30 Practical Chemistry is a unique practice book for CXC It provides a wealth of revision exercises and a guide to all the detailed experimental work covered in the CXC Chemistry syllabus Section A Practical guidance for teachers and classes perform Introduction to Biology National Agricultural Institute, 2014-08-27 Introduction to Biology is one in a series of Just The Facts JTF textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology agriculture food and natural resources AFNR This is a bold new approach to textbooks The textbook presents the essential knowledge of introductory biology in outline format This essential knowledge is supported by a main concept learning objectives and key terms at the beginning of each section references and a short assessment at the end of each section Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes scanned by smart phones or tablets or URLs The textbook is available in print and electronic formats To purchase electronic copies inquire at info national ag institute org *Research in Education*, 1971 *The Impact of Formative Assessment Techniques on the Instruction of the High School Biology Units of Photosynthesis and Cellular Respiration* Shanna Fawn Tury, 2010

Resources in Education, 1971 Laboratory Text and Notebook for Organic Chemistry Roy G. Bossert, Wallace Reed Brode, 1968 The Student's Lab Companion John W. Lehman, 2004 For undergraduate or graduate students taking organic chemistry lab Ideal for professors who write their own lab experiments or would like custom labs but need a source for lab operations and safety information Using a practical how to approach The Student's Companion describes all of the laboratory operations that are most often used in a typical organic chemistry course It provides enough practical information to help students learn the necessary lab techniques and know how to handle problems as they arise plus just enough theory to help students understand how and why the techniques work as they do Echem Stephen Thompson, Jacqueline Resseguie, 1994

**Laboratory Exercises for Preparatory Chemistry** Kathy Dodds Tyner, 1994-06 Laboratory Exercises for Preparatory Chemistry is the perfect complement to a one semester preparatory chemistry laboratory course Tyner's manual emphasizes the application of chemistry and the principles of science to everyday life The labs are directly applicable to the real world and often contain supplemental assignments that illustrate an application *Annual Report* Grain Research Laboratory (Canada), 1988 Transactions of the ... Meeting of the American Surgical Association American Surgical Association, 1959 1969 includes the association's Minutes previously published separately **Government Reports Announcements & Index**, 1988

Gradwohl Laboratory Digest, 1959 **British Chemical and Physiological Abstracts. Index**, 1950 **British Chemical and Physiological Abstracts**, 1950 **Review of Current Literature Relating to the Paint, Colour, Varnish and Allied Industries** Research Association of British Paint, Colour and Varnish Manufacturers, 1955 *Chemistry in Canada*, 1965 **The Journal of Medical Laboratory Technology**, 1957 **Energy Research**

**Abstracts ,1982-08**

**Journal of the Chemical Society of Pakistan ,1979**

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