Chromatography Lab

Name_____

Partners' Names _____

Chromatography is a useful method for separating the substances in a mixture. In a mixture the substances are not chemically combined, therefore, they can be separated. Chromatography uses the fact that different substances dissolve at different rates to separate those mixtures.

Purpose: To use chromatography to separate substances in a mixture. Show differences in physical properties in a substance that make up a mixture.

Material	s Filter paper		Red, green, blue and bla	ack markers.	Pencil
	Metric ruler		scissors	Methanol	water
	Graduated cy	linder	Beaker	Paper towel	
Procedui - - - -	re: 	 Cut four strips of Use a pencil to a Use a pencil to a Use a pencil to a Make a spot cordination From the center centimeter. Let the dot dry a Using the gradu Using the gradu Carefully stand DO NOT ALLOW Record observant After the solved 	of filter paper at least 10 draw a line across the pa label the paper as red, bl rresponding to the color of r of the dot, measure up and darken the mark again tated cylinder, measure of alted cylinder, measure of all 4 paper strips in beak V THE DOTS TO TOUC rations until the solvent re- ent has reached the edge	cm long. per 1 cm from the botto ue, green, black. on each of the papers, or o the center of the pape in. ut 5 mL of water, and p ut 5 mL of water, and p ut 5 mL of methanol an er, and crease edges to CH THE LIQUID eaches the edge of the b of the beaker, remove t	m. n the center of the line. r and make a mark every our into beaker. d pour into the beaker. keep them from falling eaker. he strips, and put them on
-	3	a piece of pape and clothes. Do	r towel to dry. (CAUTIO o not touch the colored an	ON the dyes from the marcas of the paper.)	arker can stain your hands
-	1	12. Clean and dry them.	beaker and graduated cy	linder. Return all mater	als to where you got
1 cm -	_	13. Answer the qu	estions.		
	-	14. Attach dried st	trips to sheet		

Ink Color	Observations
Green	
Blue	
Red	
Black	

Questions:

1. Did a physical or chemical change occur during this experiment? How do you know?

2. What colors of dye were there in each color of ink? (i.e. What colors were there in the green ink?)

3. Compare the order of the colors on you strips. Is there a pattern to how the colors moved?

4. Predict what would happen to

A. Orange ink

B. Purple ink

C. Yellow ink

Attach the dried strips here