Kool-Aid Column Chromatography

Pages 46- 48 White Textbook / Pages 54-56 Black Textbook

Title: Every page Every Time (2 points)

Signatures: Every Page Every Time (2points)

Lab Objectives: Copy the 3 lab objectives (2 points)

Safety: Summarize the safety in bullet points (2 points)

Research Question: Copy the research question (2 points)

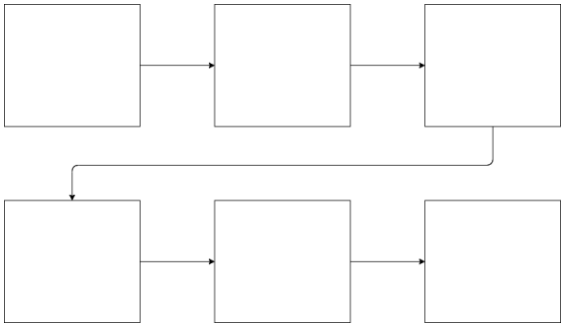
Pre-Lab & Post Lab Questions: Each question is only worth 2 points. Do NOT write the question. You only have to write the answer. (10 points)

Materials: Copy the material list (5 points)

Set-Up: Teacher will illustrate the set up. Draw the set-up. (3 points)

Background: Copy the background / notes given by Teacher (5 points)

Procedure: Put the procedure into a flow chart format. (20 points)



Read the procedure in the textbook & watch the video of the Green Hand Man and then write the procedure in your OWN words in a flow chart.

https://www.youtube.com/watch?v=Q6pGleEzIGk

Calculations: Show the work to calculate 5% and a 25% Solution of Isopropyl (8 points)

Data Table: Copy the data table into your lab notebook. Complete data table on lab day. (10 points)

Added to Syringe	Color of Fraction (color in the test tube)	Color of Sep-Pak
Kool-Aid		
5%		
25%		

Conclusion: (17 points)

Must write in paragraph form. Below is what each sentence should include. Write your sentences answering the following questions.
Underline these 10 vocab words. Only underline each word once! Each underlined word used correctly is worth 1 point.

Sep- Pak
Chromatography
Polar
Non-polar
Eluted
Red dye
Sugar
Citric Acid
Blue dye
Water

Sentence #1
Explain what chromatography means.
Sentence #2
Explain what a Sep-Pak is made off. Refer to notes –write like you are telling someone who has never heard of a Sep-Pak.
Sentence #3
Explain why a Sep-Pak is non-polar
Sentence #4
Explain why sugar, water and citric acid were eluted first. Use the terms polar and non-polar to explain. Be sure to define eluted
Sentence #5
Explain why the red dye exited the column with the 5% isopropyl
Sentence #6
Explain why the blue dye exited the column with the 25% isopropyl
Sentence #7
Google chromatography real world examples. Explain one example of how chromatography is used in the real world.

Lab QUIZ: Open lab notebook quiz. You may use your lab notebook when answering the quiz. (12 points)