

*Chemistry*

**Chromatography Lab**

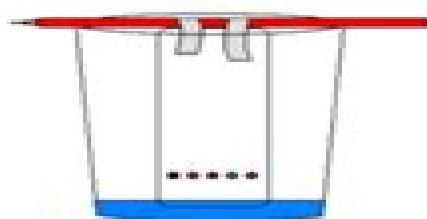
**Separating Mixtures**

**Purpose:** To separate a mixture using paper chromatography.

## Materials:

**Green Marking Pen**  
**Various marking Pens**  
**Beaker**  
**Pencil**

**Chromatography (filter) Paper  
Metric Ruler  
Clear Plastic Tape  
Rubbing Alcohol**



## **Procedures:**

1. Obtain one pre-marked filter paper and two blank filter papers.
  2. On the unmarked filter papers, draw a line across the bottom of the filter paper, 1 cm up from the bottom.
  3. Trace the pencil line with the two different green pencils/markers.
  4. Tape the unmarked end of the filter paper to the pencil so that it hangs down vertically from the pencil, when the pencil is held horizontally. (You may run two papers at one time.)
  5. Carefully pour approximately  $\frac{1}{2}$  cm of rubbing alcohol into the bottom of the beaker.
  6. Rest the pencil across the top of the beaker so that the bottom of the filter paper is barely beneath the surface of the rubbing alcohol (don't let the color line touch the alcohol).
  7. Observe the changes in the strip of chromatography paper for 10 minutes.
  8. Remove the filter paper from the beaker and immediately draw a line in pencil where the rubbing alcohol has stopped as it has moved up the chromatography paper.
  9. Make additional marks in pencil to locate the point at which each band of color has moved along the chromatography paper.
  10. Repeat steps 3 – 8 with each of the 2 unknowns your teacher has provided to you.

**Observations:** (Record at least 10 observations/questions)

**Data:** (Copy the following tables)

### **Power Table 21a**

Green Pen		Unknown #1			Unknown #2		
Distance Alcohol Travelled		Distance Alcohol Travelled			Distance Alcohol Travelled		
Distance the color travelled	Color Band	Distance the color travelled		Color Band	Distance the color travelled		Color Band
Distance the color travelled	Color Band	Distance the color travelled		Color Band	Distance the color travelled		Color Band
Distance the color travelled	Color Band	Distance the color travelled		Color Band	Distance the color travelled		Color Band

# Answers To Ap Experiment 10 Chromatography Lab

**Ian Pickup**

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*CliffsNotes AP Chemistry* Bobrow Test Preparation Services, 2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter's end. Two full length practice tests with detailed answer explanations are included in the book.

**CliffsAP Chemistry, 4th Edition** Bobrow Test Preparation Services, 2011-09-26 Your complete guide to a higher score on the AP Chemistry exam. Why CliffsAP Guides Go with the name you know and trust. Get the information you need fast. Written by test prep specialists. Contents include Introduction, overview of the test and how it is scored, proven strategies for each type of question, Review of topics tested, atom periodic table, bonding, geometry, hybridization, stoichiometry, gases, liquids and solids, thermodynamics, solutions, equilibrium, acids and bases, kinetics, redox, nuclear chemistry, organic chemistry and writing reactions. The Labs feature 20 multiple choice questions, multiple free response questions on each topic with answers on each topic with answers and explanations, scoring rubrics and 2 full length practice exams. Structured like the actual exam. Complete with answers and explanations. AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product.

Exploring Chemistry Laboratory Experiments in General, Organic and Biological Chemistry Julie R. Peller, 2003-04 This lab manual is organized and written to ensure that non science majors are comfortable with chemistry labs by making the experiments more applicable to students' daily lives. This approach also serves to make the experiments more understandable. Many labs relate specifically to allied health fields.

Introduction to Organic Laboratory Techniques, 2006

*Green Chemistry* Mark Anthony Benvenuto, Steven Kosmas, 2022-08-22 This volume includes several perspectives on how to connect the United Nations Sustainable Development Goals with the 12 principles of green chemistry and green chemistry education.

Comprehensive Organic Chemistry Experiments for the Laboratory Classroom Carlos A. M. Afonso, Nuno R. Candeias, Dulce Pereira Simão, Alexandre F. Trindade, Jaime A. S. Coelho, Bin Tan, Robert Franzén, 2016-12-16 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions. The editorial team have collected contributions from around the world and standardized them for publication. Each experiment will explore a modern chemistry scenario such as sustainable chemistry application in the pharmaceutical industry, catalysis and material sciences to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors concerning the results obtained and advice on getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors together with the results obtained in the laboratory by students has been compiled for each experiment. Targeted at professors and lecturers in chemistry this useful text will provide up to date experiments putting the science into context for the students.

Addison-Wesley Small-scale Chemistry Dennis D. Staley, Edward L. Waterman, 1995

Laboratory Experiments for

Chemistry, the Central Science, 5th Ed John Henry Nelson,1991      **Analytical Methods for Elucidating Harmful Exposures Related to Vaping** Ben Blount,Jonathan Thornburg,David L. Ashley,Trevor Mischki,Clifford Watson,2022-08-29  
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## **Table of Contents Answers To Ap Experiment 10 Chromatography Lab**

1. Understanding the eBook Answers To Ap Experiment 10 Chromatography Lab
  - The Rise of Digital Reading Answers To Ap Experiment 10 Chromatography Lab
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Ap Experiment 10 Chromatography Lab
  - 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 Answers To Ap Experiment 10 Chromatography Lab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Ap Experiment 10 Chromatography Lab

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

- Fact-Checking eBook Content of Answers To Ap Experiment 10 Chromatography Lab
- 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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