

2003 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS

Your responses to the rest of the questions in this part of the examination will be graded on the basis of the accuracy and relevance of the information cited. Explanations should be clear and well organized. Examples and equations may be included in your responses where appropriate. Specific answers are preferable to broad, diffuse responses.

Answer BOTH Question 5 below AND Question 6 printed on page 12. Both of these questions will be graded. The Section II score weighting for these questions is 30 percent (15 percent each).

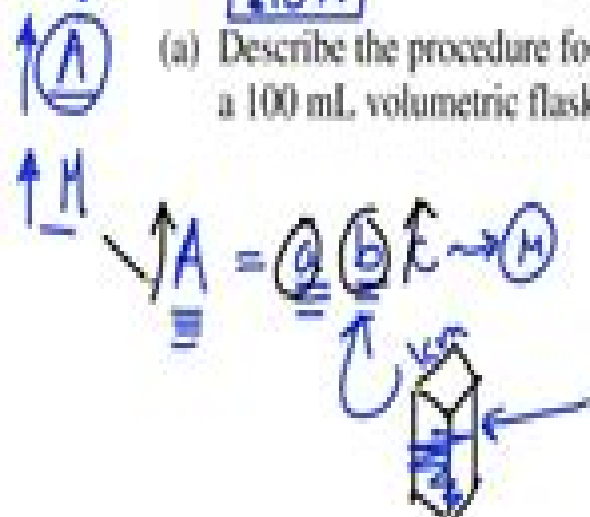
- 5 A student is instructed to determine the concentration of a solution of CoCl_2 based on absorption of light (spectrometric/colorimetric method). The student is provided with a 0.10 M solution of CoCl_2 with which to prepare standard solutions with concentrations of 0.020 M , 0.040 M , 0.060 M , and 0.080 M .

(a) Describe the procedure for diluting the 0.10 M solution to a concentration of 0.020 M using distilled water, a 100 mL volumetric flask, and a pipet or buret. Include specific amounts where appropriate.



$0.10\text{ M} \rightarrow \text{dilution } .02 \rightarrow .04 \rightarrow .06 \rightarrow .08$

$.10\text{ M} \rightarrow .02$



Ap Chemistry Labs Answers

Angela Woodward Spangenberg

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Ap Chemistry Labs Answers:

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

CliffsNotes AP Chemistry Angela Woodward Spangenberg, 2016-01-12 Test prep for the AP Chemistry exam with 100% brand new content that reflects recent exam changes Addressing the major overhaul that the College Board recently made to the AP Chemistry exam this AP Chemistry test prep guide includes completely brand new content tailored to the exam administered every May Features of the guide include review sections of the six big ideas that the new exam focuses on Fundamental building blocks Molecules and interactions Chemical reactions Reaction rates Thermodynamics Chemical equilibrium Every section includes review questions and answers Also included in the guide are two full length practice tests as well as a math review section and sixteen discrete laboratory exercises to prepare AP Chemistry students for the required laboratory experiments section on the exam

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2008-04-29 Provides information on setting up an in home chemistry lab covers the basics of chemistry and offers a variety of experiments

Cracking the AP Chemistry Exam, 2020 Edition Princeton Review Staff, The Princeton Review, 2019-08-06 Cracking the AP Chemistry Exam 2020 Edition provides students with thorough subject reviews of all relevant topics including atomic structure thermodynamics the periodic table fundamental laws organic chemistry molecular binding and key equations laws and formulas It also includes helpful tables charts and diagrams and detailed advice on how to write a high scoring essay

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Placement exam in chemistry featuring a review of major chemistry concepts practice and diagnostic tests test taking strategies an overview of the test and practice problems

AP Chemistry For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

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