

# 2000 AP® CHEMISTRY FREE-RESPONSE QUESTIONS

## CHEMISTRY—SECTION II

(Total time—90 minutes)

### Part A

Time—40 minutes

YOU MAY USE YOUR CALCULATOR FOR PART A.

Clearly show the method used and steps involved in arriving at your answers. It is to your advantage to do this, because you may earn partial credit if you do and you will receive little or no credit if you do not. Attention should be paid to significant figures. Be sure to write all your answers to the questions on the lined pages following each question in this booklet.

Answer Question 1 below. The Section II score weighting for this question is 20 percent.



1. When heated, hydrogen sulfide gas decomposes according to the equation above. A 3.40 g sample of  $\text{H}_2\text{S}(g)$  is introduced into an evacuated rigid 1.25 L container. The sealed container is heated to 483 K, and  $3.72 \times 10^{-2}$  mol of  $\text{S}_2(g)$  is present at equilibrium.

- (a) Write the expression for the equilibrium constant,  $K_c$ , for the decomposition reaction represented above.
- (b) Calculate the equilibrium concentration, in  $\text{mol L}^{-1}$ , of the following gases in the container at 483 K.
  - (i)  $\text{H}_2(g)$
  - (ii)  $\text{H}_2\text{S}(g)$
- (c) Calculate the value of the equilibrium constant,  $K_c$ , for the decomposition reaction at 483 K.
- (d) Calculate the partial pressure of  $\text{S}_2(g)$  in the container at equilibrium at 483 K.
- (e) For the reaction  $\text{H}_2(g) + \frac{1}{2} \text{S}_2(g) \rightleftharpoons \text{H}_2\text{S}(g)$  at 483 K, calculate the value of the equilibrium constant,  $K_c$ .

# Answers Ap Chemistry 2013 Response Questions

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**5 Steps to a 5 AP Chemistry, 2012-2013 Edition** Richard H. Langley, John Moore, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Basics Reactions and Periodicity Stoichiometry Gases Thermodynamics Spectroscopy Light and Electrons Bonding Solids Liquids and Intermolecular Forces Solutions and Colligative Properties Kinetics Equilibrium Electrochemistry Nuclear Chemistry Organic Chemistry Experimental 5 Steps to a 5 AP Environmental Science, 2012-2013 Edition Linda D. Williams, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include Earth Science Concepts Atmosphere Global Water Resources Soil and Soil Dynamics Ecosystem Structure Natural Cycles and Energy Flow Population Agriculture and Aquaculture Forestry Land Use Energy Nuclear Energy Renewable Energies Pollution Global Change **The Big Book of Chemistry Teacher Stories** Jeff Lark, Stories from years of teaching high school chemistry 5 Steps to a 5: 500 AP Chemistry Questions to Know by Test Day, Fourth Edition Mina Lebitz, 2022-02-21 The only study guide you ll need for the AP Chemistry test revised and updated now with a 20 question Diagnostic Quiz Confidence is key when taking any exam and it will come easier if you spend your test prep time wisely even if you ve been so busy that you ve put off preparing until the last weeks before the exam You ll find the smartest most effective test prep in 5 Steps to a 5 500 AP Chemistry Questions to Know by Test Day Fourth Edition Written by an expert in the field who knows the exam inside and out the questions closely resemble those you ll face on exam day and include detailed review explanations for both right and wrong answers 5 Steps to a 5 500 AP Chemistry Questions to

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**Disease** Kim Lewis,2019-11-13 This volume is a collection of chapters from the leading experts in the relatively new and burgeoning field of persister cell studies Persisters play a leading role in the recalcitrance of chronic infections and enable the development of classical antibiotic resistance The focus of the book is on studies that provide an understanding of the mechanisms of persister formation antibiotic tolerance and role in disease at the molecular level **Department of the Interior, Environment, and Related Agencies Appropriations for Fiscal Year 2014** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Department of the Interior, Environment, and Related Agencies,2014

**Per- and Polyfluorinated Alkyl Substances** Ravi Naidu,Megh Mallavarapu,Yanju Liu,Anthony Umeh,2025-03-17 Per and polyfluorinated alkyl substances PFAS have long been utilised in many household products including as firefighting foam to manage fires However PFAS have been linked to numerous adverse health effects leading to many class actions in US and other countries This book for the first time discusses the dynamics of PFAS in the terrestrial environment by capturing from the literature the latest information on the composition of PFAS nomenclature measurements including many challenges relating to analytical science presence of PFAS in the environment including their nature fate and transport of PFAS toxicity regulatory considerations and risk and remediation The book summarises the many challenges linked to remediation and why a risk based approach is the best strategy for managing PFAS contamination Key Features Overview of PFAS including their presence nomenclature use physicochemical properties historical use persistence transport and exposure pathways in the environment In depth discussion on analytical measurements including analytical challenges Case study of the nature the extent of PFAS contamination in the environment Fate and Transport of PFAS in the environment including why existing studies are limiting and what more needs to be conducted Toxicity of PFAS including threshold values for safe water food etc Regulatory perspectives including guideline values Risk Management and remediation What it means should we move towards zero PFAS future Conclusion [Handbook of Research on STEM Education](#) Carla C. Johnson,Margaret J. Mohr-Schroeder,Tamara J. Moore,Lyn D. English,2020-04-27 The Handbook of Research on STEM Education represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science technology engineering and mathematics STEM education What distinguishes this Handbook from others is the nature of integration of

the disciplines that is the founding premise for the work all chapters in this book speak directly to the integration of STEM rather than discussion of research within the individual content areas The Handbook of Research on STEM Education explores the most pressing areas of STEM within an international context Divided into six sections the authors cover topics including the nature of STEM STEM learning STEM pedagogy curriculum and assessment critical issues in STEM STEM teacher education and STEM policy and reform The Handbook utilizes the lens of equity and access by focusing on STEM literacy early childhood STEM learners with disabilities informal STEM socio scientific issues race related factors gender equity cultural relevancy and parental involvement Additionally discussion of STEM education policy in a variety of countries is included as well as a focus on engaging business industry and teachers in advocacy for STEM education The Handbook s 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades As such the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM which are grounded in the literature to date Engineering and Mining Journal ,1903

**The Guardian Index** ,1994      **International Books in Print** ,1986      **Forthcoming Books** Rose Arny,1998-06

Cracking the AP Chemistry Exam, 2013 Edition Paul Foglino,Princeton Review,2012-08-07 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests a subject review for all topics and sample questions and answers      **Cracking the AP Chemistry Exam, 2014 Edition (Revised)** Princeton Review,2014-03-18 THE PRINCETON REVIEW GETS RESULTS Get all the prep you need to ace the revised AP Chemistry Exam with 2 full length practice tests thorough topic reviews and proven techniques to help you score higher The AP Chemistry course and test are undergoing major changes with a new version of the exam debuting in May 2014 Inside Cracking the AP Chemistry Exam you ll find 2 full length practice tests with detailed explanations that include the new multiple choice and constructed response question types Expert subject reviews for all test topics that reflect the changes to the 2014 AP Chemistry exam including newly incorporated test topics and Big Ideas organization Practice drills at the end of each chapter Step by step strategies techniques for every section of the exam A comprehensive list of key chemistry equations and constants This eBook edition has been specially formatted for on device viewing with cross linked questions answers and explanations      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      **Cracking the AP Chemistry Exam, 2015 Edition** Princeton Review,2015-01-20 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Equip yourself to ace the AP Chemistry Exam with The Princeton Review s comprehensive study guide including 2 full length practice tests thorough content reviews and targeted strategies for every section of the exam This eBook edition has been specially formatted for on screen viewing with cross linked questions

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