

**AP® CHEMISTRY
2013 SCORING GUIDELINES**

Question 2

Answer the following questions involving the stoichiometry and thermodynamics of reactions containing aluminum species.



An electrolytic cell produces 235 g of Al(l) according to the equation above.

- (a) Calculate the number of moles of electrons that must be transferred in the cell to produce the 235 g of Al(l).

$235 \text{ g Al} \times \frac{1 \text{ mol Al}}{26.98 \text{ g Al}} = 8.71 \text{ mol Al}$ $\text{Al}^{3+} + 3 e^- \rightarrow \text{Al}, \text{ therefore, 3 mol } e^- \text{ transferred per mol Al}$ $8.71 \text{ mol Al} \times \frac{3 \text{ mol } e^-}{1 \text{ mol Al}} = 26.1 \text{ mol } e^-$	1 point is earned for the number of moles of Al. 1 point is earned for correct stoichiometry and the number of moles of electrons.
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- (b) A steady current of 152 amp was used during the process. Determine the amount of time, in seconds, that was needed to produce the Al(l).

charge = moles e^- \times Faraday's constant = $26.1 \text{ mol } e^- \times \frac{9.65 \times 10^4 \text{ C}}{1 \text{ mol } e^-} = 2.52 \times 10^6 \text{ C}$ $I = \frac{Q}{t}$ $t = \frac{Q}{I} = \frac{2.52 \times 10^6 \text{ C}}{152 \text{ C/s}} = 1.66 \times 10^4 \text{ s}$	1 point is earned for the correct amount of charge transferred. 1 point is earned for the correct time.
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- (c) Calculate the volume of $\text{CO}_2(g)$, measured at 301 K and 0.952 atm, that is produced in the process.

$\text{mol CO}_2 = 8.71 \text{ mol Al} \times \frac{3 \text{ mol CO}_2}{4 \text{ mol Al}} = 6.53 \text{ mol CO}_2$ $PV = nRT$ $V = \frac{nRT}{P} = \frac{(6.53 \text{ mol}) \left(0.0821 \frac{\text{L atm}}{\text{mol K}} \right) (301 \text{ K})}{0.952 \text{ atm}} = 1.70 \times 10^2 \text{ L CO}_2$	1 point is earned for the number of moles of CO_2 . 1 point is earned for the volume of CO_2 .
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2013 Ap Chemistry Response Scoring Guide

Christie M. Ballantyne

2013 Ap Chemistry Response Scoring Guide:

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: 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 Know by Test Day Fourth Edition is updated for the latest exam featuring only those type of questions you'll see on this year's exam plus a super helpful 20 Question Diagnostic quiz to test your knowledge No matter how busy you are this 5 Steps to a 5 guide will help you make the most of your last minute study to build the skills you need in a minimal amount of time Features 500 AP style questions and answers referenced to core AP materials NEW 20 Question Diagnostic Quiz to test your knowledge Questions parallel the topic format and degree of difficulty of those in the AP exam followed by answers with comprehensive easy to understand explanations Detailed review explanations for right and wrong answers Ideal and effective last minute practice to help build the skills you need in a minimal amount of time

Developing Assessments for the Next Generation Science Standards National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Board on Testing and Assessment, Committee on Developing Assessments of Science Proficiency in K-12, 2014-05-29 Assessments understood as tools for tracking what and how well students have learned play a critical role in the classroom Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education

for the future as it has been elaborated in A Framework for K 12 Science Education Framework and Next Generation Science Standards NGSS These documents are brand new and the changes they call for are barely under way but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education The new Framework and the NGSS are designed to guide educators in significantly altering the way K 12 science is taught The Framework is aimed at making science education more closely resemble the way scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time It structures science education around three dimensions the practices through which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as students progress through grades K 12 Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework This report reviews recent and current work in science assessment to determine which aspects of the Framework s vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision The report offers a systems approach to science assessment in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework s vision should consist of assessments designed to support classroom instruction assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students

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Renewable Energies Pollution Global Change **Food-Based Dietary Guidelines: The Relevance of Nutrient Density and a Healthy Diet Score** Ellen G. H. M. Van Den Heuvel,Lisette Cornelia Petronella Gerardina Maria De Groot,Monique

Maria Raats,Jan Steijns,Edith Feskens,Inge Tetens,2021-02-02 **Obstetric Medicine** Shital Gandhi,Dan

Farine,2022-02-07 The subspecialty of Obstetric Medicine sits in a unique intersection of the disciplines of Internal Medicine and Obstetrics Its focus is in the skilled management of medical problems in pregnancy from pre pregnancy optimization to the management of acute and chronic conditions in pregnancy and in the postpartum period to ensure resolution and safe transition back to the primary care provider This book will provide novel insights into the management of pregnant women Clinical pearls will be emphasized such as illustrating atypical aspects of a presenting symptom finding and when a subspecialty referral or transfer to a high risk centre must occur for patient safety This book will combine basic science principles build on existing guidelines and provide crucial tips on how to safely manage acute and chronic medical conditions in pregnancy It is THE book for sub specialists in Obstetric Medicine **Clinical Lipidology - E-Book** Christie M.

Ballantyne,2023-01-06 Part of the renowned Braunwald family of references Clinical Lipidology A Companion to Braunwald's Heart Disease provides today's clinicians with clear authoritative guidance on the therapeutic management of patients with high cholesterol levels and other atherogenic lipid disorders An invaluable resource for cardiologists lipidologists endocrinologists and internal medicine physicians this one stop reference covers everything from basic science and the pathogenesis of atherothrombotic disease to risk assessment and the latest therapy options Now fully updated from cover to cover the 3rd Edition offers unparalleled coverage of lipidology in an accessible and user friendly manner Thoroughly covers the assessment diagnosis and treatment of patients with elevated levels of lipids and lipoproteins including all the latest research based recommendations therapeutic breakthroughs and related clinical advances Presents the latest data on clinical guidelines risk assessments and established and emerging pharmacologic and nonpharmacologic therapies all from internationally recognized experts in the field Features condensed streamlined content that focuses on clinical applications and applying concepts to the practice setting Chapters have now been completely reorganized into sections on risk assessment therapy new and evolving therapeutic targets and platforms and special populations Includes new chapters on Polygenic Risk Scores Inclisiran Bempedoic Acid Selective Peroxisome Proliferator Activated Receptor Modulator Pemafibrate Evolving Therapeutic Targets Lp a ANGPTL3 and ApoC III New Therapeutic Platforms Gene Therapy and Genome Editing and more Contains new or expanded content on inflammation genetic testing troponins for risk assessment statins and role of bile acid sequestrants niacin and fibrates mAbs CANTOS and CIRT colchicine IL 6 and cellular molecular and genetic therapy Provides treatment algorithms throughout as well as case vignettes that highlight the most common

clinical questions in each chapter Incorporates the latest guidelines from the AHA ACC ESC and EAS as well as future directions for ongoing research and emerging applications [Sepsis in Neonates and Children](#) Luregn J. Schlapbach, Eric Giannoni, 2021-01-04 ***Microbiome and Machine Learning*** Isabel Moreno Indias, Marcus Claesson, Aldert Zomer, David Gomez-Cabrero, 2022-08-02 ***Braunwald's Heart Disease - E-Book*** Peter Libby, 2021-10-15 Current comprehensive and evidence based Braunwald's Heart Disease remains the most trusted reference in the field and the leading source of reliable cardiology information for practitioners and trainees worldwide The fully updated 12th Edition continues the tradition of excellence with dependable state of the art coverage of new drugs new guidelines more powerful imaging modalities and recent developments in precision medicine that continue to change and advance the practice of cardiovascular medicine Written and edited by global experts in the field this award winning text is an unparalleled multimedia reference for every aspect of this complex and fast changing area Offers balanced dependable content on rapidly changing clinical science clinical and translational research and evidence based medicine Includes 76 new contributing authors and 14 new chapters that cover Artificial intelligence in Cardiovascular Medicine Wearables Influenza Pandemics COVID 19 and Cardiovascular Disease Tobacco and Nicotine Products in Cardiovascular Disease Cardiac Amyloidosis Impact of the Environment on Cardiovascular Health and more Features a new introductory chapter Cardiovascular Disease Past Present and Future by Eugene Braunwald MD offering his unique visionary approach to the field of cardiology Dr Braunwald also curates the extensive bimonthly online updates that include Hot Off the Press with links to Practice Update and Late Breaking Clinical Trials Provides cutting edge coverage of key topics such as proteomics and metabolomics TAVR diabetocardiology and cardio oncology Contains 1 850 high quality illustrations radiographic images algorithms and charts and provides access to 215 videos called out with icons in the print version Highlights the latest AHA ACC and ESC guidelines to clearly summarize diagnostic criteria and clinical implications Provides tightly edited focused content for quick dependable reference Flexible format options include either one or two volumes in print as well as a searchable eBook with ongoing updates Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices ***Dutton's Orthopaedic: Examination, Evaluation and Intervention, Sixth Edition*** Mark Dutton, 2022-10-07 The 1 most trusted evidence based text in orthopaedic physical therapy A Doody's Core Title for 2024 2023 The definitive text for orthopedic students Dutton's Orthopaedic Examination Evaluation and Intervention delivers a logical systematic approach to hands on orthopedic treatment This new edition offers the perfect balance in its coverage of the continuum of care emphasizing the appropriate use of manual techniques and therapeutic exercise while outlining the correct applications of multiple adjuncts to the rehabilitative process Aided by decision making algorithms this comprehensive guide covers anatomy biomechanics examination and treatment of each joint and region and features Evidence based and written by a prominent practicing therapist this is an essential resource for physical therapy students

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