

**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 CO₂(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 Chem Response Scoring Guidelines

**Shao-Chen Sun, Xiang-Shun Cui, Heide
Schatten**

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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 *Quality Control of Mammalian Oocyte Meiotic Maturation: Causes, Molecular Mechanisms and Solutions* Shao-Chen Sun,Xiang-Shun Cui,Heide Schatten,2021-10-20

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Nanofluid Applications for Advanced Thermal Solutions Shriram S. Sonawane,Mohsen Sharifpur,2023-06-28 Nanofluid Applications for Advanced Thermal Solutions covers heat transfer applications of nanofluids in a variety of fields and the main techniques used in nanofluid flow and heat transfer analysis The book features an introduction to heat transfer nanofluid conduction convection and nanofluid boiling and provides a thorough understanding of a variety of applications including the energy storage component of solar PVT systems It covers fundamental topics such as the analysis and measurement of thermophysical properties convection and heat transfer equipment performance and provides a rigorous framework to assist readers in developing new nanofluid based devices Finally the book explores convective instabilities nanofluids in porous media and entropy generation in nanofluids This will be a valuable resource for upper undergraduate postgraduate and doctoral students and researchers in the fields of nanotechnology and nanofluids looking at heat transfer processes in chemical engineering and the petroleum industry Provides a comprehensive overview of the heat transfer application of nanofluids in a variety of fields Features numerical and experimental investigations of hybrid and mono nanoparticles based nanofluids Explores comparative performance investigations of various nanofluids for absorption regeneration and metal extraction stripping operations Provides case examples of operation and scale up challenges for nanofluid applications in the industrial process

Genome Instability: Old Problem, New Solutions Vivian Kahl,Nicolas Hoch,Marta Popovic,2022-03-15 **Properties of Water from Numerical and Experimental Perspectives** Fausto Martelli,2022-10-20 As the most important liquid in our life and one of the most abundant molecules in the universe water is the least understood substance with a very rich phase diagram at least 18 crystalline forms and two liquids and more than 60 dynamical thermodynamic anomalies whose origins are still under debate Properties of Water from Numerical and Experimental Perspectives gathers together leading scientists and experts in the field of water By merging the theoretical computational point of view with experimental approaches it presents a state of the art description of the properties of water enlightening the source of the anomalies of water and describing how such anomalies actively affect the functioning of biological substances **Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations** Gangwei Wang,Xiangpeng Xin ,Samir A. El-Tantawy,2024-08-13 Nonlinear problems originating from applied science that is closely

related to practices contain rich and extensive content It makes the corresponding nonlinear models also complex and diverse Due to the intricacy and contingency of nonlinear problems unified mathematical methods still remain far and few between In this regard the comprehensive use of symmetric methods along with other mathematical methods becomes an effective option to solve nonlinear problems Readers' Guide to Periodical Literature ,1951 **Industrial Arts Index** ,1950 *English Mechanic and Mirror of Science and Art* ,1873 Applied Science & Technology Index ,1997 Journal of Analytical Chemistry of the USSR ,1982 Chemical Engineering Progress Symposium Series ,1968 **Bulletin of Thermodynamics and Thermochemistry** ,1971 **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans** ,1988 **Catalog** Oregon State Agricultural College,1967 The Graduate School Bulletin Oregon State University. Graduate School,1968

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