

**AP<sup>®</sup> 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  $\text{Al}(l)$  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  $\text{Al}(l)$ .

$235 \text{ g Al} \times \frac{1 \text{ mol Al}}{26.98 \text{ g Al}} = 8.71 \text{ mol Al}$ $\text{Al}^{3+} + 3 e^- \rightarrow \text{Al}, \text{ therefore, } 3 \text{ mol } e^- \text{ transferred per mol Al}$ $8.71 \text{ mol Al} \times \frac{3 \text{ mol } e^-}{1 \text{ mol Al}} = 26.1 \text{ mol } e^-$	<p>1 point is earned for the number of moles of Al.</p> <p>1 point is earned for correct stoichiometry and the number of moles of electrons.</p>
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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  $\text{Al}(l)$ .

$\text{charge} = \text{moles } e^- \times \text{Faraday's constant}$ $= 26.1 \text{ mol } e^- \times \frac{9.65 \times 10^4 \text{ C}}{1 \text{ mol } e^-} = 2.52 \times 10^6 \text{ C}$ $I = \frac{q}{t}$ $t = \frac{q}{I} = \frac{2.52 \times 10^6 \text{ C}}{152 \text{ C/s}} = 1.66 \times 10^4 \text{ s}$	<p>1 point is earned for the correct amount of charge transferred.</p> <p>1 point is earned for the correct time.</p>
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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.

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

**Christie M. Ballantyne**



## **2013 Ap Chemistry Response Scoring Guide:**

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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

**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

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**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

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