

AP Chemistry: A Sample Formal Laboratory Report

This paper is designed to help you prepare a chemistry lab report. Keep it in your chemistry notebook. All chemistry lab reports must be written neatly and well organized to receive full credit. Lab reports may be written or typed. It is highly recommended that you use graph or engineering bond paper for written reports.

Laboratory #7: Quantitative Determination of an Empirical Formula

I. Hypothesis: If nitric acid is poured onto tin, a tin oxide will be produced. If we know the initial mass of the tin metal and the mass of the final product, we can determine the empirical formula of the tin oxide product. There should be a whole number ratio between oxygen and tin. *(The hypothesis explains what is to be tested and will be written after reading the entire laboratory worksheet.)*

II. Equipment: *(Non-chemical equipment used in the experiment.)*
evaporating dish
watch glass
stirring rod
burner with ring stand, ring and wire gauze
forceps
beaker
balance

III. Reagents: *(A listing of chemicals used in the experiment with their amounts and any warnings.)*
tin metal (granulated) ~2 g.
5 cm³ (mL) nitric acid (HNO₃) **caution! severe burns**

IV. Procedure: Each step of the procedure must be written here. You may paraphrase and shorten the explanations, but the reader must be able to perform the experiment from these instructions. *(The procedure must be read carefully before the lab begins. Drawings of the experimental setup may be included here. The teacher may make changes to the procedure; make sure that you write any changes down!)*

V. Data: *(If the laboratory report is handwritten use a ruler to draw data tables and graphs! Always include units with all data entries.)*

	Procedure	Trial 1	Trial 2
a	mass of dish, and watch glass	74.14 g	
b	mass of dish, glass and tin	76.20 g	
c	mass of tin =b-a	2.06 g	
d	moles of tin	.0173 mol	
e	mass of dish, glass, and product	76.76 g	
f	mass of oxygen =e-b	.56 g	
g	moles of oxygen	.0350 mol	
h	mole ratio	2.02 : 1	
i	accepted ratio	2 : 1	
j	% error	1.00 %	

Ap Chemistry Lab Report Answers

U.S. Atomic Energy Commission



Ap Chemistry Lab Report Answers:

The Big Book of Chemistry Teacher Stories Jeff Lark, Stories from years of teaching high school chemistry **America's Lab Report** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished Using Constructivism in Teaching AP Chemistry Avidah Lotfi, 2004 **Bibliography of Scientific and Industrial Reports** ,1946 **Resources in Education** ,1995-10 **Report Announcement Bulletin, Unclassified Reports for Civilian Applications** U.S. Atomic Energy Commission, 1956 The U S Atomic Energy Commission is conducting a large scale review of its research and development reports to make as much information as possible available through the Civilian Application Program Report Announcement Bulletin Unclassified Reports For Civilian Applications is being published to announce immediately the release of newly declassified reports All reports announced in the Bulletin are available from Office of Technical Services Department of Commerce Washington 25 D C at the price listed with each title P iii U.S. Government Research & Development Reports ,1970 **Scientific and Technical Aerospace Reports** ,1986-04 U.S. Government Research Reports ,1962 **Barron's AP Statistics** Martin Sternstein, 1998 This all new prep manual reflects the growing trend in statistics courses taken by high school students preparing for college Recommended as a supplement to classroom textbooks or as a self teaching preparation this guide offers 545 practice questions and solutions including five full length practice exams Topics reviewed include graphical displays distributions bivariate data and more

Decoding **Ap Chemistry Lab Report Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ap Chemistry Lab Report Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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