

AP Chemistry Lab Notebook

One of the major goals of science is to be able to clearly and accurately describe results of experimentation and research. In order to achieve this goal, you will keep an accurate, chronological notebook of all lab work, using a scientific format. This is not meant to be a formal lab report, but a concise summary of experimentation performed. For *this* course, please follow the following guidelines.

General Notebook Setup:

- Use a bound notebook (so pages cannot be torn out; no perforated pages - if pages are torn out you will lose points).
- Labs are to be written in ink only
- Number all pages on the upper right hand corner. The organized and neatly written lab goes on the right-hand page. The left-hand page is for scrap and preliminary calculations.
- Leave two pages (pg 1 and 2) for your Table of Contents, which should include experiment titles and corresponding page numbers as they are performed.
- Sign the bottom of every page.
- Date each page and every new day you start entering something new.

Ink Only, No White Out: Use permanent blue or black ink for all entries. Think about a reasonable layout for your data (a table perhaps) before putting pen to paper. Get in the habit of writing everything in your lab notebook (no scraps of paper to lose). Do not erase, scribble-over, or whiteout anything; simply cross out errors with one line so they are still legible (e.g. ~~0.502~~g). You WILL get better at this.

Lab Write up Format

- **Title/Partner/Date:** The title should be descriptive; the title on your lab handout may not suffice.
- **Objective then Plan to achieve the objective.** The plan is an outline of the procedure. It describes what you plan to do and how you will do it. It also lists all measurements that must be made. Details such as "I will add 3 mL of 6M HCl to 2.0 g zinc" are inappropriate. A statement such as "I will dissolve the Zn sample in concentrated HCl in order to . . .", is appropriate. **If you are conducting a reaction, always include a balanced equation.**
- **Procedure:** Briefly summarize the procedure followed so that a next year's AP Chem student could reproduce your results. Be sure to include critical parameters. For example, if you are analyzing % transmittance, record the wavelength of light; if you are titrating, record the molarity of solution used. Only the title, the objective and plan are to be in future tense. The rest of the lab write up is a **record of what you did, not an instruction manual**. Therefore, **you will be writing in the past tense**. Since you will usually have a lab partner, it is appropriate to use "we". You may also abbreviate and use bullet points and no subject. Report your actual procedure; do not write as if this is an instruction manual! Some instructors will insist on active voice (We added 30 mL . . .) while others will insist on passive voice (Zinc, 5.0 g, was allowed to react with . . .). I do not care which voice you use.
- **Data:** Record the data during the experiment; do not record on scraps of paper for later transfer into your notebook. All of the original data should be found somewhere on the left hand page whereas the right hand page should be a neat presentation of your data.
 - Use the correct number of significant digits; this will eliminate the need to specify exactly what dispensing device (eg. graduated cylinder vs. volumetric pipette) you used.
 - Record actual measurements—for example, initial and final burette readings, starting and ending time—not the difference done in your head.
 - Use data tables whenever possible; simple calculations may be included in the data table. Label all tables with a title; "Data Table" is fine if there is only one data table.

Ap Chemistry Lab Report Guidelines

Honor Victoria Frost



Ap Chemistry Lab Report Guidelines:

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17 For students DIY hobbyists and science buffs who can no longer get real chemistry sets this one of a kind guide explains how to set up and use a home chemistry lab with step by step instructions for conducting experiments in basic chemistry not just to make pretty colors and stinky smells but to learn how to do real lab work Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater bone and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints blood drugs and poisons and much more From the 1930s through the 1970s chemistry sets were among the most popular Christmas gifts selling in the millions But two decades ago real chemistry sets began to disappear as manufacturers and retailers became concerned about liability em The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

The Success Criteria Playbook John Almarode, Douglas Fisher, Kateri Thunder, Nancy Frey, 2021-01-08 Provide students a clear view of what success looks like for any process task or product What does success look like for your students How will they know if they have learned This essential component of teaching and learning can be difficult to articulate but is vital to achievement for both teachers and students The Success Criteria Playbook catapults teachers beyond learning intentions to define clearly what success looks like for every student whether face to face or in a remote learning environment Designed to be used collaboratively in grade level subject area teams or even on your own the step by step playbook expands teacher understanding of how success criteria can be utilized to maximize student learning and better engage learners in monitoring and evaluating their own progress Each module is designed to support the creation and

immediate implementation of high quality high impact success criteria and includes Templates that allow for guided and independent study for teachers Extensive STEM focused examples from across the K 12 STEM curriculum to guide teacher learning and practice Examples of success criteria applied across learning domains and grades including high school content skills practices dispositions and understandings Ensure equity of access to learning and opportunity for all students by designing and employing high quality high impact success criteria that connect learners to a shared understanding of what success looks like for any given learning intention

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

Science Educator's Guide to Laboratory Assessment Rodney L. Doran, 2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab

The Code of Federal Regulations of the United States of America ,1989 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

Code of Federal Regulations United States. Department of Agriculture, 1999 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of Jan 1 with ancillaries

Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity

stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

Code of Federal Regulations ,1998 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

Linne & Ringsrud's Clinical Laboratory Science - E-Book Mary Louise Turgeon,2014-04-14 Updated and easy to use Linne Ringsrud s Clinical Laboratory Science The Basics and Routine Techniques 6th Edition delivers a fundamental overview of the laboratory skills and techniques essential for success in your classes and your career Author Mary Louise Turgeon s simple straightforward writing clarifies complex concepts and a discipline by discipline approach helps you build the knowledge to confidently perform clinical laboratory tests and ensure accurate effective results Expert insight from respected educator and author Mary Louise Turgeon reflects the full spectrum of clinical laboratory science Engaging full color design and illustrations familiarize you with what you ll see under the microscope Streamlined approach makes must know concepts and practices more accessible Broad scope provides an ideal introduction to clinical laboratory science at various levels including MLS MLT and Medical Assisting Hands on procedures guide you through the exact steps you ll perform in the lab Learning objectives help you identify key chapter content and study more effectively Case studies challenge you to apply concepts to realistic scenarios Review questions at the end of each chapter help you assess your understanding and identify areas requiring additional study A companion Evolve website provides convenient online access to procedures glossary audio glossary and links to additional information Updated instrumentation coverage familiarizes you with the latest technological advancements in clinical laboratory science Perforated pages make it easy for you to take procedure instructions with you into the lab Enhanced organization helps you study more efficiently and quickly locate the information you need Convenient glossary provides fast easy access to definitions of key terms

Compendium of Terminology and Nomenclature of Properties in Clinical Laboratory Sciences Georges Féraud,René Dybkaer,Xavier Fuentes-Arderiu,2016-11-18 There has been significant expansion and development in clinical laboratory sciences and in particular metrological concepts definitions and terms since the previous edition of this book was published in 1995 It is of prime importance to standardize laboratory reports for reliable exchange of patient examination data without loss of meaning or accuracy New disciplines have appeared and the interrelationships between different disciplines within clinical laboratory sciences demand a common structure and language for data exchange in the laboratory and with the clinicians necessitating additional coverage in this book These new sections will be based upon recommendations published by various national regional and international bodies especially IUPAC and IFCC This book groups and updates the recommendations and will be appropriate for laboratory scientists medical professionals and students in this area

Resources in Education ,1995 *Selected Water Resources Abstracts* ,1974-10

Motivational Interviewing with Teens Made Simple Honor Victoria Frost, **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1985 *Journal of Research of the National Bureau of Standards*, 1975 *Translation Title List and Cross Reference Guide* U.S. Atomic Energy Commission, 1961 *Leafy Medicinal Herbs* Dawn C P Ambrose, Annamalai Manickavasagan, Ravindra Naik, 2016-07-25 Medicinal herbs are rich in vitamins minerals and antioxidants and are able to synthesize secondary metabolites with disease preventive properties It is due to these qualities that herbs have been used throughout history for flavouring and in food medicine and perfumery preparations They are also often considered to be safe alternatives to modern medicines because of their healing properties Though interest in medicinal and aromatic crops is growing worldwide there is still little focus on the area of leafy medicinal herbs This book compiles the literature for 23 globally relevant leafy medicinal herbs Beginning with a general overview and discussion of the importance of these plants it then handles each herb by chapter Chapters discuss the botany of the crop including its history and origin geographical distribution and morphology before focusing on the chemical composition and phytochemical attributes They then review postharvest technology aspects such as processing and value addition before concluding with the general and pharmacological uses for each crop A complete compilation of the subject this book forms a vital resource for researchers students farmers and industrialists in the area of leafy medicinal herbs **Publications of the National Bureau of Standards, 1976 Catalog** United States. National Bureau of Standards, 1977 *Williams Textbook of Endocrinology, 14 Edition: South Asia Edition, 2 Vol SET - E-Book* Shlomo Melmed, Ronald Koenig, Clifford J. Rosen, Richard J. Auchus, Allison B. Goldfine, 2020-06-30 **Williams Textbook of Endocrinology 14 Edition South Asia Edition 2 Vol SET E Book** **Williams Textbook of Endocrinology E-Book** Shlomo Melmed, Ronald Koenig, Clifford J. Rosen, Richard J. Auchus, Allison B. Goldfine, 2019-11-14 Expertly bridging the gap between basic science and clinical information Williams Textbook of Endocrinology 14th Edition brings together an outstanding collection of world renowned authors to provide authoritative discussions of the full spectrum of adult and pediatric endocrine system disorders New chapters and significant revisions throughout keep you up to date with recent advances in medications therapies clinical trials and more This essential reference is a must have resource for endocrinologists endocrine surgeons gynecologists internists pediatricians and other clinicians who need current comprehensive coverage of this multifaceted field Up to date with recent advances in medications therapies and clinical trials Provides state of the art coverage of diabetes metabolic syndrome metabolic bones disorders obesity thyroid disease testicular disorders newly defined adrenal disorders and much more all designed to help you provide optimal care to every patient Contains new chapters on Global Burden of Endocrine Disease Navigation of Endocrine Guidelines and Transgender Endocrinology Includes significant updates to the Diabetes section including a new chapter on Physiology of Insulin Secretion and greater coverage of Type 2 Diabetes Presents current information in a highly illustrated user friendly format for quick reference Enhanced eBook version included with purchase

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