

Advanced Placement Chemistry LAB MANUAL



The AP Chemistry Exam includes inquiry style and laboratory skill based questions that require students to draw from their own experiences with materials and to use critical thinking skills that are enhanced by participation in weekly lab activities. Statistics show that high scores on the AP Chemistry exam are directly correlated to the amount and quality of student lab work. Therefore, when a student is absent on the day of a lab, it is very important that arrangements to make up the lab be made as quickly as possible (before the chemicals get thrown away). Labs will be available for make-up for only one week after they have been performed by the class.

In the Laboratory

Students who wish to participate in lab are expected to come to the lab periods wearing clothing that is in accordance with the Northern Highlands Safety Contract. Mandatory lab attire includes safety goggles (provided) and closed-toe shoes for the entire duration of the laboratory experiment and clean up procedures. Contact lenses and shorts are discouraged but not prohibited. Also in accordance with the Safety Contract, all food and beverage products are banned from lab. Gum chewing is not permitted during lab.

Prior to the lab period, students are expected to complete a pre-lab assignment. This assignment entails reading the current lab assignment and setting up the lab notebook following appropriate procedures (see below). When actually entering the laboratory, all belongings should be placed on the window side of the room. Students may only bring their lab notebook and a pen to the lab station. All experiments are to be performed in a standing position to increase alertness, response-time, and measuring ability.

Grades

Laboratory grades are comprised of two separate portions. The first grade is assigned while in the laboratory for compliance with safety regulations, proper chemical technique, preparation for the experiment, and clean-up procedures. The second portion of the grade is determined by the individual lab report. While experiments will be completed with a partner, each student is graded individually for their lab performance and reports.

Additionally, a separate grade will be given for lab notebook upkeep. Lab notebook checks can take the form of an unannounced spot check before a lab or as a formal collection and inspection. A lab notebook check will take place *at minimum* once a semester.

Broken Glassware

The glassware and other equipment used in the lab should be respected at all times. In the event of broken glassware or equipment, the teacher must be notified immediately and the glass fragments disposed of into the broken glass container. Broken glass should NEVER be placed in the regular trash can as that can lead to serious injury. ALWAYS use the dustpan and broom to sweep up shards. The science department policy states that students are responsible for paying the replacement fee for any equipment that they have broken or damaged in the laboratory.

Highschool Lab Manual

Jiyuan Zhang



Highschool Lab Manual:

High School Laboratory Manual for Human Anatomy & Physiology Terry Martin, 2014-01-08 The Laboratory Manual is ideal for the high school classroom It has 28 hands on laboratory activities to complement any Anatomy Physiology course or text

QSL Chemistry Lab Manual Frank Eshelman, 2014-04-03 This chemistry lab manual is intended to accompany a QSL chemistry lab kit made for Visions in Education and based on the microscale method This gives students a lab experience as good as or better than the traditional methods but uses about 1 100th of the chemicals The experiments are much safer and disposal much easier Experiments 1 Scientific Investigations Whirlybird 2 Melting Points and Super Cooling 3 Decomposition 4 Collecting Data 5 Properties of a Group in the Periodic Table 6 Electrical Conductivity 7 Paper Chromatography 8 Double Replacement Reaction 9 Mole Ratios 10 Boyle's Law 11 Charles's Law 12 Freezing Point Depression 13 Enthalpy of Reaction 14 Reversible Reactions 15 Solubility Product Constant 16 Buffer Solutions 17 Oxidation Reduction 18 Hydrocarbon Models 19 Organic Chemistry Models 20 Nuclear Decay Simulation

Life Science Lab Manual Carrie Hindman, Mark Eshelman, 2013-08-12 Calvert Education High School Middle School Life Science Lab Manual Faith Based This manual with a strong Christian emphasis includes instructions for the Calvert Education Life Science lab kit Term 1 and Term 2 The experiments are laid out with The goals or learning objectives The materials and equipment included and commonly available items that you may need to be supply An introduction of the science concept's A Bible devotional relating the science concept to God or to life Step by step instructions Data collection and questions Experiments 1 Introduction to the Microscope 2 Classification 3 Enzymes 4 Cells 5 Osmosis and Diffusion 6 Cellular Respiration 7 Photosynthesis 8 Mitosis 9 Meiosis 10 Genetic Crossing 11 Karyotypes 12 Natural Selection 13 Bacteria 14 Fungi 15 Animal Behavior 16 Plant Structure 17 Gravitropism 18 Flower Reproduction 19 Earthworm Dissection 20 Goldfish Respiration 21 Pond Water Ecosystem 22 Population Density 23 Pollution 24 Muscular System 25 Exercise 26 Lactose Digestion 27 Nervous System

Chemistry Laboratory Manual for Senior Secondary School Science Teachers Association of Washington (STAWA) Staff, 1997-10

Lab Manual for General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives *Essentials of General Organic and Biochemistry* captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit www.whfreeman.com/gob

Laboratory Manual of First Year Science for High Schools Joseph

Luther Thalman, Ada Louise Weckel, 1911 **A New Laboratory Manual for Students of High School Biology** Nicholas
 William Di Tullio, 1959 **Physical Science Lab Manual** Frank Eshelman, Ken Schaefer, 2013-08-12 Calvert Education High
 School Middle School Physical Science Lab Manual Secular Integrated Physics and Chemistry This manual includes
 instructions for the Calvert Education Physical Science Lab Kit Term 1 and Term 2 The experiments are laid out with The
 goals or learning objectives The materials and equipment included and commonly available items that you may need to be
 supply An introduction of the science concept s Step by step instructions Data collection and questions Experiments 1
 Scientific Investigation 2 Metric Measurements 3 Density 4 Chemical Reactions 5 Enthalpy of Reaction 6 Electrolysis of
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