

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

Huangqi Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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