

Laboratory Inquiry In Chemistry

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In the laboratory you will be asked to draw on your knowledge of chemical concepts as well as your interpretation of appropriate experimental procedures. Because science is often a creative endeavor, we have removed the “ recipes ” that often accompany laboratory experiments in general chemistry.

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Student response to lab. The biomimicry-focused guided-inquiry lab described above was implemented in three high schools (two public and one private) in four introductory 10 th-grade chemistry classrooms. Students who completed the lab provided feedback on its effectiveness and quality.

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Laboratory Inquiry in Chemistry(Bauer et al., 2005) describes its curriculum as one in which students assume the role of chemist and “ design their own experiments ” , (Bauer et al., 2005, p. v) adapting techniques to their specific problems.

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Inquiry-Based Experiments in Chemistry is an alternative to those "cookbook" style lab manuals, providing a more accurate and realistic experience of scientific investigation and thought for the high school chemistry or physical science student."

With this modular laboratory program, students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment. The scenarios are drawn from the lives of people who work with chemistry every day, ranging from field ecologists to chemical engineers, and include many health professionals as well.

"Compatible with standard taper miniscale, 14/10 standard taper microscale, Williamson microscale. Supports guided inquiry"--Cover.

The focus of the manual is on conceptual learning of the chemical phenomena in our lives. The manual employs the learning cycle approach, which is used as the underlying model for the guided and open inquiry/application laboratories. The learning cycle is derived from learning theory, is consistent with the nature of science, and has three sequential phases: 1) exploring/gathering data; 2) discussion/concept invention; 3) expansion/application.

EXPERIMENTS IN GENERAL CHEMISTRY: INQUIRY AND SKILL BUILDING, 2nd edition approaches the general chemistry lab experience with a combination of experiment styles: Skill Building, Guided Inquiry, and Open Inquiry, in order to maximize information and skills in the

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minimal amount of lab time. There are 28 experiments with Pre-Lab questions to help you prepare for the lab ahead of time, Post-Lab questions to reinforce the core concepts of the lab, and a useful appendix of Common Procedures and Concepts that provides quick access to basic laboratory information for when you need it. The entire manual is printed on perforated pages so that worksheets can be cleanly and easily removed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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