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# Chem Lab Basics (Quickstudy: Academic)

**BarCharts, Inc.®**

**WORLD'S EASIEST ACADEMIC OUTLINE**

**CHEMLAB BASICS**

**CHEMISTRY SAFETY AND LAB GUIDE**

**SAFETY TRAINING**

- Safety is an integral part of working in the chemistry laboratory - a responsibility shared by students and instructors.
- Learning about safety is part of your education, skills you gain in the lab will serve you in future careers and in life - if nothing else they will make you a better cook!

**Be Prepared - Where is the:**

- Lab exit - Know how to get out fast in an emergency
- Nearest phone - Dial 911 or local emergency number
- Flame hood - Use for any vigorous reaction
- Eyewash station and safety shower - For washing skin or eyes exposed to chemicals
- Fire-extinguisher - Use to douse small fires

**Possible risks:**

- Inhaling chemical powder or vapor
- Injecting solid or liquid chemicals
- Piercing skin with a sharp object and injecting chemicals into your body
- Absorbing chemicals through your skin

**EXPOSURE TO CHEMICALS**

While working in the lab you will use a number of chemicals, giving ample chance for exposure to the harmful effects of chemicals.

**KNOW YOUR LAB REAGENTS**

Some chemicals are toxic; all can cause harm if used incorrectly. Learn about reagents before using them in an experiment. Read your lab manual and textbook, talk to your instructor, if in doubt, ask questions!

**WORKING WITH CHEMICALS**

**Heating techniques:**

- Use tongs to handle glassware while it is heated by a burner or hotplate.
- Allow the glass to cool to room temperature before weighing.

**For liquid reagent:**

- Cover the beaker with a watch glass
- Use "boiling stones" to prevent smooth heating
- Flammable solvent: take care when heating with hot plate; avoid use of gas burner
- Handle test tube with wire-holder

**For solid reagent:**

- Use a weighing-dish on the balance
- Consider the dust-prevention, spills or contamination

**FIRST AID**

Check with instructor for first guidelines.

**Burn from hot laboratory glassware:**

- Rinse with cold water
- Action: contact medical help
- Cut from broken glassware:

  - Rinse with soap, apply antiseptic and sterile bandage.

**Spills:**

- Control bleeding by applying pressure with sterile pad, contact emergency medical personnel.
- Skin-exposure to a chemical:

  - Rinse with water if condition develops, contact medical personnel.

**Fire:**

- Get out immediately or passing out.
- Most affected person to fresh air outside of the lab; contact medical personnel if the condition persists.

**Chemical spills:**

- On the floor or benchtop:

  - For small spill: wear gloves, neutralize acid/base, absorb using paper towels and discard in a trash can.
  - Larger spill: Notify the instructor, wear gloves and lab protective, use a spill-kit designed for the chemical.
  - Clean up all spills **promptly** to prevent further accidents.

**GENERAL LAB GUIDELINES**

- Always work with instructor supervision
- Always wear goggles in the lab, even over eyeglasses; replace lenses with eyeglasses.
- Wear a lab apron, lab-coat and glasses to limit your chemical exposure and to save clothing from chemical stains.
- Wear close-toed shoes to protect your feet.
- Tie back hair and avoid bulky sleeves which interfere with work.
- Lab apron should not be in the lab.
- Wash your hands after each session, before leaving the lab.

**WASTE MANAGEMENT**

- Follow the instructor's directions for disposal of all lab materials. Most chemicals should not be poured down the drain.
- All toxic metals and halogenated solvents must be collected for proper disposal.

**Waste Disposal:** Use only the required amount of reagent; excess material cannot be returned to reagent just as "waste".

**A spot plate is an excellent means to conserve reagents.**



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## Synopsis

This 2-page study guide contains basic chemistry analysis and concepts designed specifically to aid science students.

## Book Information

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I've purchased several of the Bar Charts items to help out with Chemistry before I bought this, and honestly I hadn't used many of the information contained in those besides the atomic weights on the Periodic Table. The laminated sheets are rather eye-catching, but wasn't until last week that someone noticed my "Advanced Periodic Table" in my notebook. With that envy in mind, I sought this helpful guide to add to my growing Bar Charts library. The information in this particular "Chem Lab Basics" won't get you an A, but it should jog your memory in advance of an exam, or remind you of various hazards you didn't hear your professor mention. Plus it has 3-hole punching and is laminated!

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[http://www..com/gp/product/1423204182/ref=cm\\_cr\\_rev\\_prod\\_imgt](http://www..com/gp/product/1423204182/ref=cm_cr_rev_prod_imgt) It has been quite a few years since my own school days, and the Quickstudy guides helped in my preparation to teach a lot of high school subjects. The Quickstudy guides are extremely useful as review guides. My son used his chemistry and mathematics guides as short, but thorough, refreshers. They helped him to prepare for the ACT and SAT, and he did very well. He raised his ACT score by 3 points. The Quickstudy guides are printed on high-quality stock, then well-laminated. They even have holes so they can fit handily into a binder or a folder. I recommend this series!

This laminated card is awesome

Good basic guide.

Not that useful for college chem. Was recommended but not needed at any moment. Could be useful for high school stuff? I'm not sure.

I purchased this product for a college intro class, it isn't very helpful for me personally. Maybe for students in other classes.

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