



Chemistry 11



General Precautions

- Familiarize yourself with the lab procedures before beginning the activity.
- Follow all oral and written instructions.
- Notify teacher if you have any medical conditions that may be affected by lab work.
- Do not work in the lab without proper supervision.
- Never eat or drink in the lab area.



General Precautions

- Keep work areas clean and tidy. Bring only the necessary materials.
- Wear appropriate clothing.
- Tie back long hair.
- Wear a lab apron and goggles at all times.
- Do not wear contact lenses in the lab.



General Precautions

- Set up and use apparatus as described in the lab procedure or by your teacher.
- Keep all combustible materials from open flame.
- When testing for odors "waft" rather than smell container directly.
- Experiments involving poisonous vapors must be conducted in a fume hood.



General Precautions

- Dispose of waste materials as instructed by your teacher.
- Clean your workbench and all apparatus before leaving the lab. Wash your hands thoroughly.
- Know the location and use of all safety equipment.
- Notify teacher of any injuries or chemical spills immediately.



Handling Chemicals

- Read and double check labels on chemical bottles. Take only as much as you need.
- Do not return any unused chemical to the stock bottles.
- When transferring chemicals, hold the container away from your body.

Handling Chemicals



- Avoid touching chemicals with your hands. If there is contact, wash your hands immediately.
- Wear latex gloves when handling concentrated acids and bases.
- When diluting an acid with water, *always* add the acid to the water.

Handling Glassware



- Carry glass tubing in a vertical position to minimize the likelihood of breakage.
- When inserting a piece of glassware into a stopper:
 - Lubricate the glass with water or glycerin.
 - Use a twisting motion, never apply force.
 - If glassware becomes stuck, take it to your teacher.

Handling Glassware



- Place hot glass on an insulating pad rather than directly on a table.
- Hot glass looks cool. Give hot glassware plenty of time to cool.
- Use a dustpan and a brush to pick up broken glassware.

Heating Substances



- Keep hair and clothing away from open flames.
- Always turn off burners and hot plates when not in use.
- Never heat anything unless told to do so.
- Do not leave anything that is being heated or is visibly reacting unattended.
- When heating a substance in a test tube, make sure that the mouth of the tube is not pointed at you or anyone else.
- Never heat a closed container.

What to do if there is a fire...



- Turn off the gas.
- Inform the teacher right away.
- If your clothing is on fire: **STOP, DROP, and ROLL.**
- Use sand or blanket to smother small fires.
- Pull fire alarm *only* if told to do so.