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# Lab Safety

## LAB SAFETY

The most important lab safety rule is to listen to the teacher.

Problem	Solution
Your friend was talking to you when directions were given out and you aren't sure what to do.	Ask the teacher to repeat the directions.
You accidentally dropped a beaker on the floor.	Tell the teacher. Picking up broken glassware can be dangerous.
A fire breaks out in the lab.	Tell the teacher. She will tell you what to do.

- Keep everyone safe
- What safety equipment should you use in the lab?
- Clean work environment
  - wearing goggles
  - wearing safety gloves
  - following teacher's directions

Tell how each item keeps you safe in the lab.

- safety goggles protect your eyes.
- safety gloves protect your hands from chemicals.
- A lab apron will protect your clothes.
- Tongs prevent you from touching hot test tubes.

Electrical safety

- What safety equipment do you need to use the Bunsen burner?
- goggles
  - gloves
  - apron
  - tuck hair back



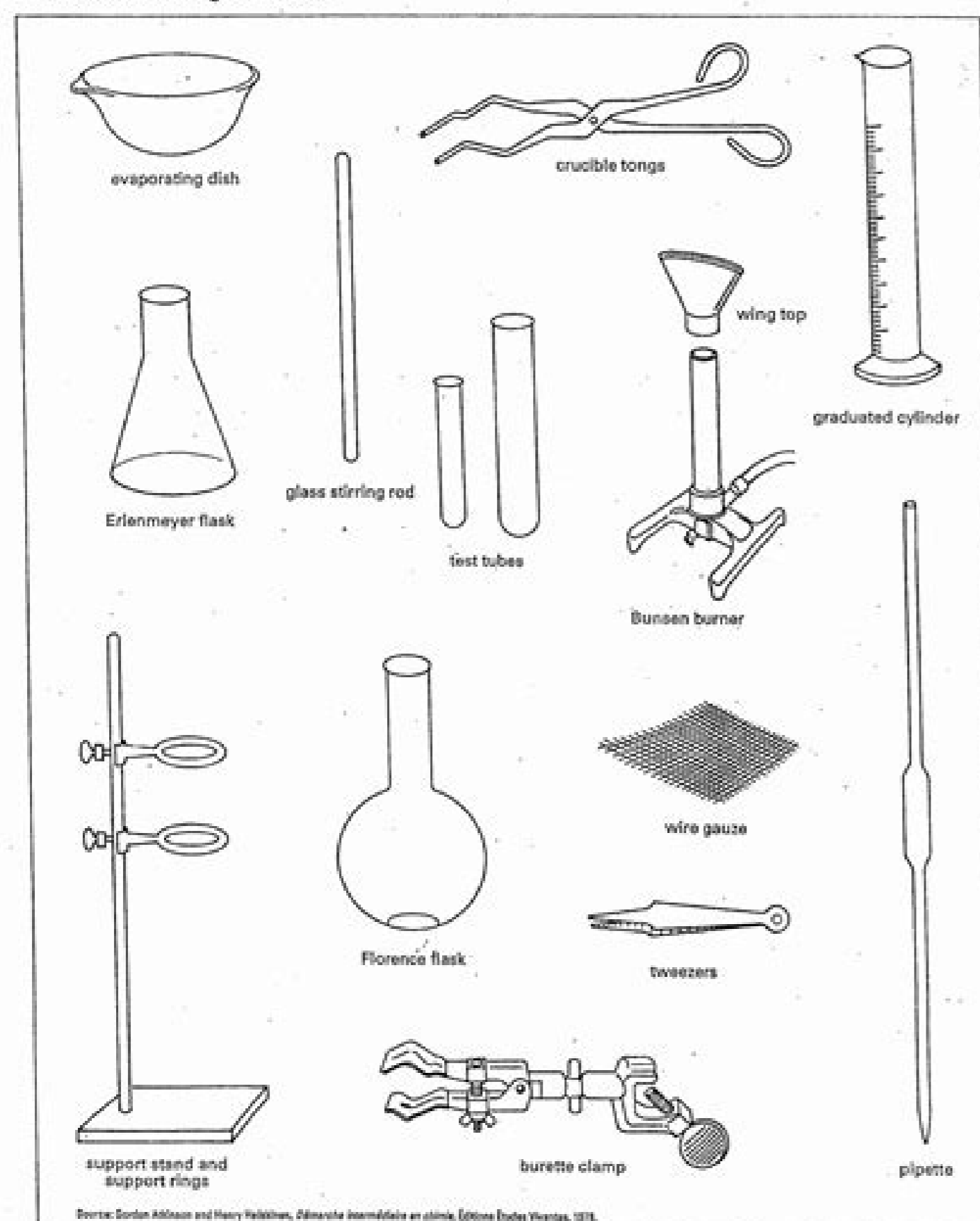
I, Kristina Muser, follow all classroom rules.

freebie

Name: \_\_\_\_\_ Group: \_\_\_\_\_ Date: \_\_\_\_\_

### LABORATORY EQUIPMENT

Student's Book, page 11  
Teacher's Guide, page 68



Source: Gordon Addison and Henry Vothman, *Chimie Intermédiaire en classe*, Éditions Didier Érudition, 1978.

## Lab Safety

When you perform an experiment at home or school, your first priority should be your safety and the safety of those around you. When you experiment at school, ALWAYS follow your teacher's or the book's instructions and NEVER try anything on your own without asking the teacher first.

Complete each of the important safety tips below with a word or phrase from the box. Each word or phrase will only be used once.

organized	flame	glassware	wash	cords
long hair	clean up	directions	well-lit	taste
ask questions	teacher	eat or drink	shoes	sharp
safety goggles	broken glass	closed	live plants or animals	spill
plastic gloves	unapproved	safety equipment	heat-resistant gloves	apron
lab materials				

1. Always \_\_\_\_\_ your hands before and after an experiment.
2. Read all \_\_\_\_\_ before beginning the experiment and ask questions if you are unsure of directions.
3. Keep your work area neat and \_\_\_\_\_.
4. Know the location of \_\_\_\_\_ and how to use it.
5. Always wear \_\_\_\_\_ when working with chemicals, burners, or any substance that may hurt your eyes.
6. Never touch, \_\_\_\_\_, or smell any chemical.
7. Be careful not to \_\_\_\_\_ any materials. If a spill does occur, clean it up immediately.
8. Never reach across a \_\_\_\_\_.
9. Pull back \_\_\_\_\_ and push up sleeves.
10. Have an adult handle \_\_\_\_\_ objects such as knives or blades.
11. Always work in a \_\_\_\_\_ and well-ventilated area.
12. Never heat liquids in a \_\_\_\_\_ container.
13. Always use the tongs, clamps, or \_\_\_\_\_ when moving hot containers.
14. Never use broken or chipped \_\_\_\_\_.
15. Dispose of \_\_\_\_\_ or other sharp objects in the proper container.
16. Notify the \_\_\_\_\_ immediately if you are cut, burned, or otherwise hurt.
17. \_\_\_\_\_ your work area when the experiment is completed.
18. Return all \_\_\_\_\_ to their proper location when the experiment is completed.
19. Never perform unsupervised or \_\_\_\_\_ experiments.
20. Wear an \_\_\_\_\_ to protect yourself and your clothes from chemicals.
21. Wear closed-toe \_\_\_\_\_ when performing experiments.
22. Make sure appliances are working properly and keep \_\_\_\_\_ untangled and out of walking paths.
23. Handle \_\_\_\_\_ with care and never be cruel or harm living creatures in an experiment.
24. Make sure you know how to use all of the equipment and \_\_\_\_\_ if you don't.
25. Wear \_\_\_\_\_ to protect your hands when handling live animals, plants, or chemicals.
26. Do not \_\_\_\_\_ while completing an experiment.

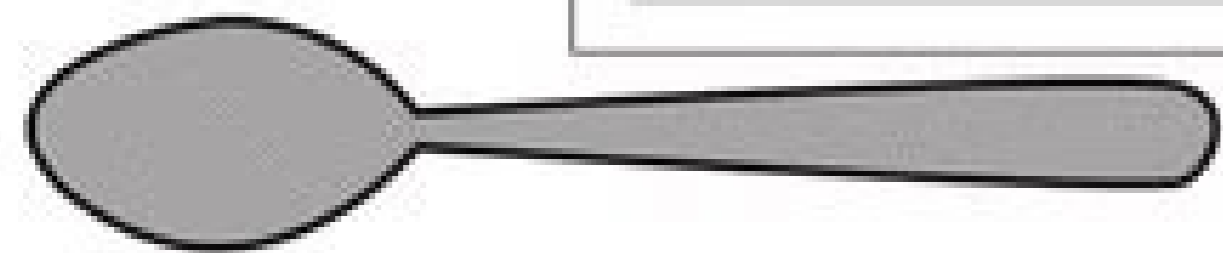


### Lab Safety Pre-Quiz...

Please take a sheet of paper from the basket on the overhead and answer the following questions:



- 1.T or F You can chew gum during lab.
- 2.T or F Use a hot plate when heating flammable substances.
- 3.T or F Never work alone in the lab.
- 4.T or F You don't need to wash your hands at the end of the lab period.
- 5.T or F Safety goggles must be worn any time chemicals, glassware, or heat is used.



## Kitchen Safety

1. Don't leave the kitchen with something cooking on the stove.
2. Tie back long hair and avoid wearing loose clothing to avoid catching on fire.
3. Keep pot handles turned away from the front of the stove. This prevents children from grabbing the handle and adults from accidentally bumping into it.
4. Keep flammable material such as dish towels and oven mitts away from the stove.
5. Be sure to wash your hands and utensils after handling raw meat, poultry, or fish.
6. After you are finished cooking, clean and clear countertop and make sure appliances, stove and oven is turned off before leaving the kitchen.
7. Unplug electric appliances before touching sharp edges.
8. Be aware of hot steam which can cause burns or scalding.
9. Store chemical products separate from food containers.
10. Use a cutting board when chopping ingredients.
11. When using a knife, cut away from your body.
12. Do not use metal in the microwave.
13. Clean up any spills immediately.
14. Keep a fire extinguisher nearby.
15. Do not run in the kitchen.

### Quiz Corner

Q: What should you do before, during, and after you cook something on the stove?

A: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Lab safety quiz middle school.

A teacher answer key is provided. This can easily be used for Homework. There are both multiple-choice and extended response questions on the exam. There is at least a weeks wPage 4Use my EXPLAIN Multimedia Presentation for SI Units, Investigations, Variables & Graphs either Teacher-Directed, Student-Directed, or a combination of both! Perfect for a FLIPPED CLASSROOM! There are appropriate fun, hyperlinked videos throughout. This packet contains a self contained text that describes the Scientific Method, It also includes a PowerPoint Presentation, which can accompany the packet in the classroom. This worksheet can help students understand safe lab practices and good techniques. NSTA and the authors do not warrant or represent that the procedures and practices in this resource meet any safety code or standard of federal, state, or local regulations. Questions or comments about its content should be directed to NSTA at 703-243-7100 or safety@nsta.org. 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Students record on their FRAME for their Notebooks, as they are guided through the SI Units SYSTEM, comparing it to our Place Value system, reviewing Base Units and their Prefixes with examples of each, including both King Henry's Ladder Method In order to continue enjoying our site, we ask that you confirm your identity as a human. After students read through the basic rules, they will complete a word search full of lab-related vocabulary, including "beaker" and "funnel." Offline games like this are great way to help kids focus on the material in front them. Download PDF Lab classes present unique challenges and opportunities. However, conditions of actual use may vary, and the safety procedures and practices described in this resource are intended to serve only as a guide. Permission is granted in advance for reproduction for purpose of classroom or workshop instruction. Then, Assess with a quick Quiz. 3D Printer Safety American Association of Poison Control Centers (AAPCC) Find your poison control center: 800-222-1222 American Chemical Society California State Department of Education Science Safety Handbook for California Public Schools - 2014 edition (PDF) Carolina Biological Supply Co. 2700 York Rd. Burlington NC 27215-3398 800-334-5551 Centers for Disease Control and Prevention (CDC) The National Institute for Occupational Safety and Health (NIOSH) NIOSH Safety Program Checklist for Schools Cole-Parmer Interactive Chemical Compatibility Database Connecticut State Department of Education Council of State Science Supervisors Science and Safety. 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To request permission for other uses, please contact NSTA at safety@nsta.org. Print Test (Only the test content will print) Practicing Lab Safety Content Locked For all you mad scientists, here is a helpful lab safety 1 01! Catered to the fifth grade, this science-themed worksheet explains 10 proper lab safety procedures. Additional precautionary measures may be required. View answersAdd to collectionAssign digitallyCommon Core State StandardsTexas Essential Knowledge and Skills (TEKS)Virginia Standards of Learning (SOL)Next Generation Science Standards (NGSS)BC Performance StandardsAlberta Program of StudiesThe Australian Curriculum (ACARA)The Victorian Curriculum (F-10)No standards associated with this content. Thank you very much for your cooperation. If you do not want to include the Conversion section, simply fold the paper and do not copy the bottom part with the Conversion between Units area. 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Also included are links to regulations and policy, hazard analysis, MSDS, waste management, and pre-formulated TOXNET and PubMed searches. Use this 23 question exam for a unit on lab safety and measurement in the beginning of the school year.

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