

Name:

Lab 1-0: Laboratory Safety

/50 points

Introduction: Safety in the laboratory is the most important part of any experiment. You must always be aware of the conditions around you. The chemistry laboratory can be a dangerous place: open flames, poisonous chemicals, sharp tools, broken glass, etc. Knowing what to do in an accident can minimize damage and injury.

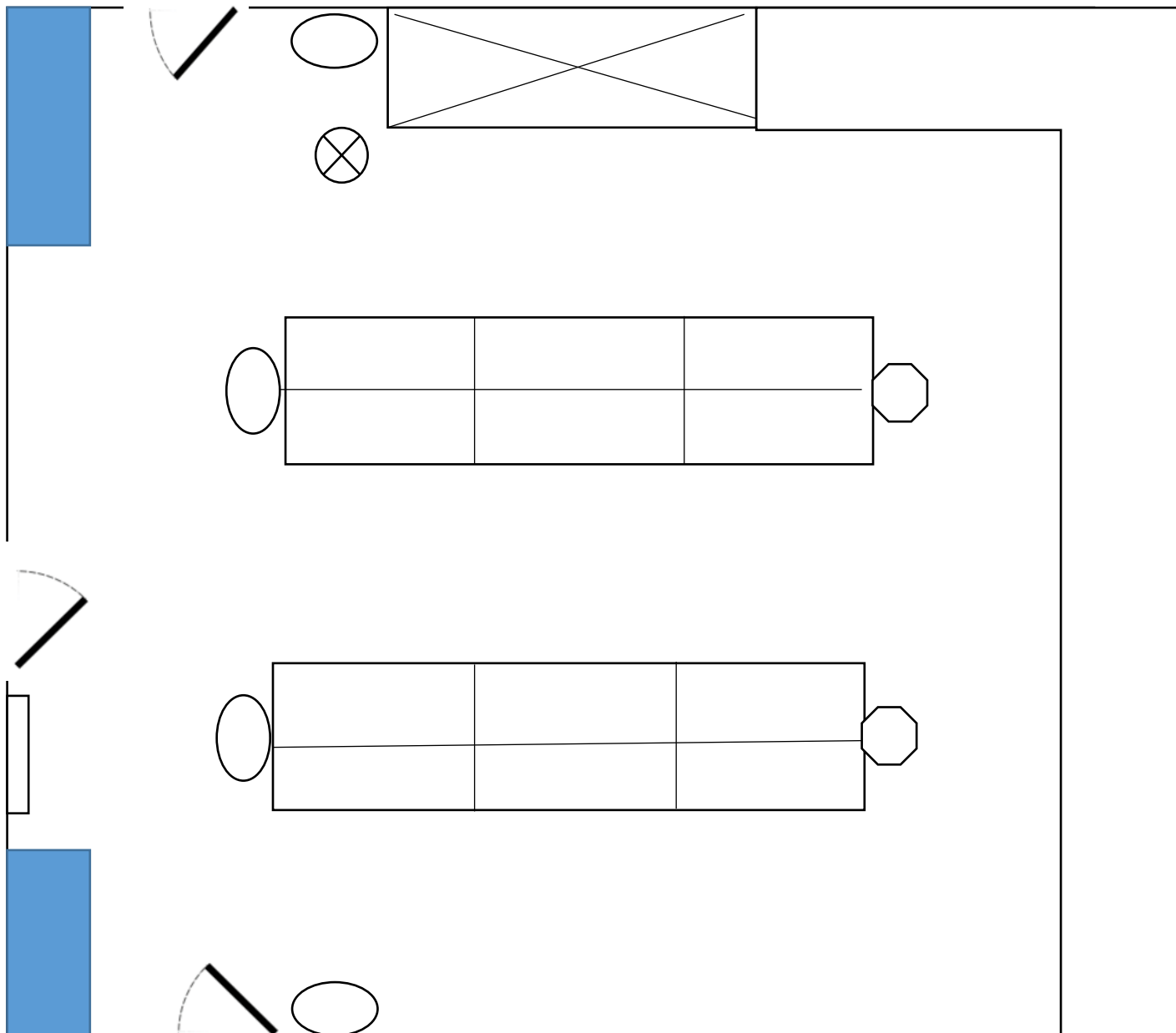
Materials: Class Website: schlickscience.com > Laboratory > Lab 1-0 Safety

Part 1. Know Your Laboratory Floorplan

Draw a sketch below of Chemistry Laboratory Room 324. The doors have been drawn for you.

Locate each item and label its location with the correct letter.

| | | |
|--------------------|---------------------------|----------------------------|
| S – Sinks (4) | F – Fume Hood | W – Waste cans |
| SS – Safety Shower | E – Eye Wash Stations (2) | R – Broken Glass container |
| G – Goggle Cabinet | A – Apron closet | D – Deionized Water Jug |
| I – Lab Board | X – Fire Extinguisher | B – Fire Blanket |



Part 2: Laboratory Safety

Go to the class website and watch video 1: *Chemistry Lab Safety*. Record the proper procedure for each safety issue scenario.

- Safety goggles:

- Open flame:

- Fire extinguisher:

- Catching on fire:

- Broken glass:

- Cuts & Burns:

- Waste chemicals:

- Acid spill:

- Toxic vapors:

- Work Area:

Go to the class website and watch video 2: *Chemistry Lab Safety*. Record the proper procedure for each safety issue scenario.

1. Describe the attire and proper way to dress for the laboratory.

2. What is the first step of action when an accident occurs?

3. Identify the purpose of the Fume Hood.

4. Explain how a chemistry student accurately measures a liquid.

Part 3: Know Your Laboratory Equipment

Open the drawers at of one of the twelve stations. Make a list of the equipment contained at the station. Refer to the Laboratory Equipment List and video.

Station number: _____

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Part 4: Understanding Chemical Hazard Labels

Go to the class website and read *How to read a Chemical Label*. Complete the page in this packet called *Understanding Chemical Hazards Labels and MSDS*. You will need to find an MSDS sheet for Acetone.

Part 5: Laboratory Safety Contract

This packet contains a two-page Student Safety Contract. **This contract must be reviewed by the student in the presence of a parent/guardian.** The contract must be signed and dated by the student AND the parent guardian. A signed safety contract must be turn in before you can conduct any future laboratory experiments.

Part 6: Prepare for Laboratory Safety Test

Carefully review the Laboratory Guidelines. You will take a Laboratory Safety Test before you conduct your next laboratory experiment. You must score a 100% on the Safety Test in order to conduct any future experiments.