

## Science Safety Lab Quiz Answer Key PDF

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**Describe the steps you would take if you witnessed a small fire starting in the lab.**

**Alert others, use a fire extinguisher if trained, evacuate if necessary, and notify emergency services.**

**What are the potential consequences of not wearing appropriate PPE in the lab?**

**Increased risk of injury, exposure to hazardous substances, and potential legal or disciplinary actions.**

**What should you do first if a chemical spill occurs on your skin?**

- A. Wipe it off with a cloth
- B. Ignore it
- C. Rinse immediately with water ✓**
- D. Apply ointment

**Discuss the importance of proper waste disposal in maintaining a safe laboratory environment.**

**Prevents contamination, reduces health risks, and ensures compliance with environmental regulations.**

**How would you conduct a risk assessment for a new experiment involving volatile chemicals?**

**Identify hazards, evaluate risks, implement control measures, and review procedures regularly.**

**Why is it important to report near misses and unsafe conditions in the lab, even if no one is injured?**

**Helps prevent future incidents, improves safety protocols, and fosters a culture of safety awareness.**

**Explain why it is important to read the Safety Data Sheet (SDS) before using a chemical.**

**It provides critical information on handling, hazards, and emergency measures related to the chemical.**

**What are the correct steps for donning PPE? (Select all that apply)**

- A. Put on gloves before lab coat
- B. Wear goggles before gloves ✓**
- C. Ensure lab coat is buttoned ✓**
- D. Wear open-toe shoes

**Which of the following are considered safe practices when handling chemicals? (Select all that apply)**

- A. Smelling chemicals directly
- B. Wearing gloves ✓**
- C. Reading the SDS ✓**
- D. Mixing chemicals without supervision

**Which items should be disposed of in a biohazard waste container? (Select all that apply)**

- A. Used gloves ✓**
- B. Broken glass
- C. Contaminated pipette tips ✓**
- D. Paper towels

**What is the first step in using a fire extinguisher?**

- A. Aim at the base of the fire
- B. Pull the pin ✓**
- C. Squeeze the handle
- D. Sweep side to side

**Which action should you take if you break glassware in the lab?**

- A. Sweep it up with your hands
- B. Notify the instructor and use a broom and dustpan ✓**
- C. Leave it for someone else to clean
- D. Kick it under the table

**What type of shoes should be worn in the lab?**

- A. Open-toe sandals
- B. High heels
- C. Closed-toe shoes ✓**
- D. Flip-flops

**Which of the following is NOT considered personal protective equipment (PPE)?**

- A. Lab coat
- B. Safety goggles
- C. Sandals ✓**
- D. Gloves

**Which piece of equipment is used to measure liquid volume accurately?**

- A. Beaker
- B. Bunsen burner
- C. Graduated cylinder ✓**
- D. Test tube

**Which of the following are essential components of a chemical label? (Select all that apply)**

- A. Chemical name ✓**
- B. Hazard symbols ✓**
- C. Expiry date
- D. Manufacturer's contact information ✓**

**Which actions should be taken during a lab evacuation? (Select all that apply)**

- A. Turn off all equipment ✓**
- B. Run to the nearest exit
- C. Follow the evacuation route ✓**
- D. Gather personal belongings

**What are the benefits of participating in safety drills? (Select all that apply)**

- A. Familiarity with emergency procedures ✓**
- B. Increased panic during real emergencies
- C. Improved response time ✓**
- D. Knowledge of evacuation routes ✓**

**What is the primary purpose of wearing goggles in the lab?**

- A. To improve vision
- B. To protect eyes from chemical splashes ✓**
- C. To look professional
- D. To shield from bright lights

**Which symbol indicates a biohazard?**

- A. Skull and crossbones
- B. Flame
- C. Three interlocking circles ✓**
- D. Exclamation mark