

## Chemistry Lab Safety Quiz Answer Key PDF

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### What should you do before leaving the lab?

- A. Leave your equipment on the bench
- B. Clean your workspace and wash your hands ✓**
- C. Take off your lab coat and leave it in the lab
- D. Turn off the lights

### 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

### What is the primary purpose of wearing goggles in the chemistry lab?

- A. To look stylish
- B. To protect eyes from chemical splashes ✓**
- C. To see better in dim light
- D. To prevent dust from entering the eyes

### Why is it crucial to report all incidents and near-misses in the laboratory?

**It is crucial to report all incidents and near-misses in the laboratory to enhance safety protocols, improve training, and mitigate risks.**

### Discuss the environmental impact of improper chemical waste disposal and how it can be mitigated.

**The environmental impact of improper chemical waste disposal includes soil and water pollution, which can lead to harmful effects on wildlife and human health. To mitigate these impacts, it is**

essential to enforce regulations, promote safe disposal practices, and educate the public on the importance of proper chemical waste management.

What should be included in a risk assessment before starting an experiment? (Select all that apply)

- A. Identification of potential hazards ✓
- B. Steps to minimize risks ✓
- C. Estimated time to complete the experiment
- D. Emergency contact numbers ✓

Which PPE items are necessary when handling corrosives? (Select all that apply)

- A. Safety goggles ✓
- B. Lab coat ✓
- C. Open-toe shoes
- D. Gloves ✓

Which document provides detailed information about chemical properties and hazards?

- A. Lab manual
- B. Material Safety Data Sheet (MSDS) ✓
- C. Experiment protocol
- D. Safety sign

Which of the following is a common lab hazard?

- A. Biological risk
- B. Physical risk
- C. Chemical risk
- D. All of the above ✓

Explain why it is important to conduct a risk assessment before starting any laboratory experiment.

It is important to conduct a risk assessment before starting any laboratory experiment to identify potential hazards, evaluate the risks associated with those hazards, and implement appropriate safety measures to protect personnel and the environment.

**What are the correct steps for disposing of chemical waste? (Select all that apply)**

- A. Pour it down the sink
- B. Follow lab-specific disposal procedures ✓**
- C. Label the waste container clearly ✓**
- D. Mix different types of waste together

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

- A. Wipe it off with a paper towel
- B. Ignore it if it doesn't hurt
- C. Rinse immediately with plenty of water ✓**
- D. Cover it with a bandage

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

- A. Lab coat
- B. Safety goggles
- C. Open-toe sandals ✓**
- D. Gloves

**How can you identify a chemical hazard in the lab, and what symbols might indicate these hazards?**

**To identify a chemical hazard in the lab, look for labels and safety data sheets that provide information on the chemicals being used, as well as hazard symbols such as the skull and crossbones (toxic), flame (flammable), and corrosives symbol (corrosives).**

**What actions should you take if you notice a chemical spill? (Select all that apply)**

- A. Report it to the supervisor ✓**
- B. Clean it up immediately without protective gear
- C. Evacuate the area if necessary ✓**
- D. Use the appropriate spill kit ✓**

**Describe the steps you would take if you accidentally spill a chemical on the lab bench.**

1. Assess the chemical and the extent of the spill. 2. If safe, contain the spill using absorbent materials. 3. Evacuate the area and notify lab personnel or a supervisor. 4. Follow the lab's emergency procedures for cleanup and disposal, using appropriate personal protective equipment (PPE). 5. Document the incident as required.

**Where should you dispose of broken glassware in the lab?**

- A. Regular trash bin
- B. Recycling bin
- C. Designated glass disposal container ✓**
- D. Chemical waste container

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

The potential consequences of not wearing appropriate PPE in the lab include chemical burns, respiratory problems, eye injuries, and increased risk of accidents.

**Which of the following are essential items in a lab's emergency equipment? (Select all that apply)**

- A. Eyewatch station ✓**
- B. Fire extinguisher ✓**
- C. Bunsen burner
- D. Safety shower ✓**

**Which of the following are considered proper lab conduct? (Select all that apply)**

- A. Eating lunch in the lab
- B. Keeping your workspace organized ✓**
- C. Wearing PPE at all times ✓**
- D. Listening to music with headphones