# Lab Safety - Questions and Answers

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| Question | Answer |
| Can you say whether the student violated any safety rules? | Yes, you should never work alone. |
| If the student hadn’t been working alone, what is the first thing the student should do? | Tell the teacher. |
| List 1 precaution each student is taking while performing the labs and 1 thing they are doing wrong. | Wearing goggles; Working alone; Working with a partner. |
| Why does good preparation help you stay safe in the lab? | Helps you stay safe. |
| What should you do if you don’t understand something you read that you’re supposed to do in the lab? | Ask the teacher. |
| What is the most important safety rule in performing a lab? | Follow directions exactly. |
| What is the last thing you should do at the end of the lab? | Wash your hands. |
| Why is it important to dispose of waste materials properly at the end of a lab? | Some materials are dangerous. |
| What does the 'skull and crossbones' symbol mean when you see it in a lab procedure? | It’s deadly. |
| What steps should you take to avoid injury with a product labeled with a 'skull and crossbones'? | Wear gloves and glasses. |
| What does it mean to do an investigation in the field? | Outdoor investigation. |
| Why should you never carry out a field investigation alone? | You can’t control the weather. |
| What did this student do wrong? | Alone, didn’t plan, did not tell anyone. |
| What is the first thing you should do if you are involved in an accident in the lab? | Tell the teacher. |
| What would you do if you splashed some liquid on your skin in the lab? | Tell the teacher. |
| What action would you and your teacher then take to try to prevent injury? | Wash it off. |
| Lab Rule 1 | No eating or drinking in the lab. |
| Lab Rule 2 | Handle everything as if it’s pathogenic. |
| Lab Rule 3 | Keep flame and flammable solutions far apart. |
| Lab Rule 4 | Keep electrical equipment far from water. |
| Lab Rule 5 | Clean spills from outside in. |
| Lab Rule 6 | Always clean glassware before you use it. |
| Lab Rule 7 | Do not return excess materials to the stock containers. |
| Check all water baths with a thermometer before putting your hand into the water. | True. |
| All sharp instruments should be discarded in a container. | True. |
| Why is it important to know how to use lab equipment? | Avoid accident. |
| What should you do when an accident occurs? | Tell the teacher. |
| Why does good preparation help you stay safe when doing science activities in the laboratory? | It helps you stay safe when working in the field. |
| What is the most important safety rule when performing a lab? | Follow directions exactly. |
| What is the purpose of the safety symbols used in the textbook? | To tell you it is dangerous. |
| What are four important things you should do at the end of every lab? | Wash your hands, clean your area, dispose of chemicals, throw away your gloves. |
| What does it mean to do a 'field' investigation? | Go outside to do an investigation. |
| What can help you avoid potential hazards in doing a field investigation? | Plan for the weather. |
| What should you immediately do when any accident occurs in the lab? | Tell the teacher. |
| Gina is thirsty. She rinses a beaker with water, refills it with water, and takes a drink. Is this safe? | No – They could still have chemicals in the beaker. |
| Bram notices the electrical cord on his microscope is frayed and tells the teacher. Is this safe? | Yes – Because it could shock you or someone that touches it. |
| Jamal puts on safety goggles before pouring hydrochloric acid. Is this safe? | Yes – Safety goggles can help keep your eyes safe. |
| Anna walks barefoot to the sink to clean glassware. Is this safe? | No – You could slip or get hurt. |
| Evon splashes water back at Mike after Mike accidentally splashed him. Is this safe? | No – Mike did not mean to splash Evon, and water got on the ground. |
| Lindsey mixes two chemicals not stated in the procedure. Is this safe? | No – She is not following directions. |
| What did Manuel do wrong as he was heating Chemical A? | Was not wearing goggles. |
| What mistake did Andy make with Chemical B? | Did not waft and gasped it. |
| What was unsafe about Manuel’s test of sandstone? | Mixing chemicals. |
| What should Lucy have done when she splashed the acid on her hand and sleeve? | Tell a teacher. |
| What was wrong with Andy’s plan to observe more rocks? | Went alone. |
| What did the group do wrong when leaving the lab? | Left chemicals open dripping down the counter. |
| What should Lucy have done when she noticed the cut on her finger? | Tell teacher. |