

Laboratory Safety Guided Notes – Student Edition



_____ is all about being aware of the surroundings as well as cultivating a specific skillset that is used to keep oneself and peers safe inside the lab.

When practicing lab safety, one of the ways to ensure everyone’s safety is to recognize any potential hazards. A _____ is anything or any event that can cause harm to an individual.

Laboratory Safety Symbols

To promote the safe handling of hazardous materials and equipment, all labs should display appropriate _____
_____. These are graphic designs that are intended to convey a certain message or
_____ to the audience.

Laboratory Symbol	Name	Meaning	What to Do
		This represents a broad reminder that the area in the laboratory is like to contain hazards and risks.	
		The lab contains biohazardous materials or infectious agents.	
		There are chemicals with explosive properties in the area.	
		It suggests that flammable or materials that ignite easily are likely to be present inside the lab.	

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Laboratory Symbol	Name	Meaning	What to Do
		It indicates that substances held in the laboratory are poisonous .	
		This indicates that the tool is made up of glass which is fragile or highly breakable.	
		This indicates hot surfaces to warn the possibility of burn hazards.	
		It indicates that corrosive chemicals or those that can burn skin or wear away materials are present in the lab.	
		This symbol means high voltage electrical equipment is present in the lab.	
		This symbol means that there are substances that can cause irritation to the eyes and skin.	
		This symbol indicates that the material has sharp edges which can cut skin.	

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Laboratory Safety Rules

Aside from knowing the different laboratory safety symbols, having a strong set of overall _____ is essential in avoiding accidents and injuries inside the laboratory. These rules are only effective when they are enforced; thus, a strong _____ is also important to a safe laboratory.

Here are some safety rules that must be observed when working inside the laboratory.

1. Know _____ of laboratory safety showers, eyewash stations, and fire extinguishers.
2. Be familiar with _____ routes. Be aware of the evacuation plan to properly leave the venue in case of emergencies.
3. Dress _____ inside the lab. Always used the recommended _____ and other safety equipment for each experiment.
4. Do not _____ or _____ inside the lab. Eating or drinking in the lab can increase one's risk of exposure to hazardous materials.
5. Do not _____ or _____ chemicals. Tasting or smelling some chemicals can be dangerous or even deadly.
6. Follow the _____ on the storage of equipment and chemicals. If there are designated spaces for storage of particular items, ensure to _____ them in the appropriate place after use to avoid inconveniencing the next user.
7. Handle laboratory glassware with _____ to avoid damage. _____ glassware often and do not use damaged glassware.
8. Treat all chemicals in the lab as if they were _____. Avoid skin and eye _____ with all chemicals.
9. When using volatile or toxic chemicals, ensure to open and use them with a of _____.
10. Act _____ inside the lab. Do not play like a mad scientist who is randomly mixing chemicals to see what happens. Do not do horseplay inside the lab too.
11. _____ of lab waste properly. Before you start an experiment, you should know what to do at the end.
12. Know what to do with lab _____. _____ the teacher-in-charge if and when accident occurs.
13. Stay _____ and aware of your surroundings. When working with hazardous materials, it is critical to focus on the task and avoid distractions to prevent accidents or errors.