

- TEACHER -

Starting with Safety ANSWERS

Video Questions

Handling Chemical Safety

01	When you read the label on a chemical container, what are the three most important pieces of information?	Chemical name, concentration, hazard warnings.
02	How many times should you read this information before opening the container?	At least twice – be sure of correct chemical and concentration.
03	What should you do with the leftover chemicals after an experiment?	Throw them away in the proper waster container.
04	Why is it important to read instructions all the way through before beginning an experiment?	Prepares you for safety needs. You will understand what you are supposed to do.
05	When you need to carry chemicals in the lab, what size container is the safest to use?	Smallest container that will do the job.
06	If you spill a chemical, what should you do?	Notify your teacher immediately.
07	Should you add acid to water, or water to acid?	Pour acid into water – Remember “AA” add acid.

Bunsen Burner and Glassware Safety

01	Before hooking a Bunsen burner to the gas line, what should you look for?	Check to make sure there are no cracks in the hose.
02	If your flame sputters or goes out, what should you do?	Turn off the gas!
03	If you smell gas in the room, what should you do?	Turn off the gas! Make sure all lines are off.
04	Is it safe to heat a sealed container? Why or why not?	No, pressure build up in a closed container can cause it to burst.
05	Is it safe to work near heated objects?	NO!
06	Is it safe to use glassware that has cracks or stars? Explain.	No, the glass is weak and it might break.
07	How can you safely carry a heated object?	If you must carry a heated object, protect your hands with hot mitts or beaker tongs.
08	Is it safe to heat flammable chemicals with a Bunsen burner?	NO!

Thermometer Safety

01	Should you ever shake a thermometer?	No!
02	Before choosing a thermometer for a specific job, what should you do?	The thermometers range and the appropriate temperature you will be measuring.
03	If you break a thermometer, what should you do?	Tell your teacher – teacher will help clean it up.

Glass Tubing Safety

01	What is one of the most common causes of injury in the laboratory?	Cuts from broken glass tubing.
02	If you do not have an inserter, how should you insert glass tubing into a rubber stopper?	Lubricate the tubing before inserting it through the stopper. Protect your hands with leather gloves.
03	What is the safe way to insert a thermometer into a stopper?	Put lubricant on the thermometer, use the inserter or leather gloves and gently slide into the stopper.

Dressing for Safety

01	What types of shoes are appropriate for the lab?	Hard shoes with tops and closed toes.
02	Describe the type of clothing you should wear on days you are working in the lab.	Sturdy and made of natural fabrics. Long pants/skirts to cover legs. Older clothing and lab aprons.
03	How should you protect your eyes from chemicals and glass shards?	Protect eyes with safety goggles.
04	What is it important to remove rings, watches, and contact lenses before working in the lab?	Rings and watches can trap corrosive chemicals against your skin. Contact lenses can also trap vapors.

Behavior in the Laboratory

01	Is the laboratory a safe place to eat, drink or put on make up? Why or why not?	No, the lab contains many chemicals that can damage your body and these may contaminate food/drink.
02	What is a safe way to read a burette that is above your eye level?	Lower the burette or stand on a step stool.
03	Where should you keep your personal belongings that you bring to the lab?	Out of the aisle and off the countertop.

Emergency Equipment

01	Name the pieces of safety equipment in your laboratory.	Shower, eyewash, fire extinguisher, fire blanket, first aid kit and sand bucket.
02	How do you extinguish a small fire in a container? What should you do if you have a large fire?	Cover a small fire to extinguish it. Notify your teacher immediately if you have a large fire.
03	How do you put out a clothing fire?	Safety shower, "stop drop and roll", fire blanket.