

# Science Lab Safety

## ANSWER KEY

When special care and attention is needed, while handling chemicals or equipment in the lab, this word is often used - **CAUTION**

### General Safety Precautions (T - True) (F - False)

[If you mark the statement False, cross out or add words, to make it True.]

- F Wild behavior in the lab will result in precise, accurate results.
- F Open-toed sandals are acceptable footwear in the lab.
- F Contact lenses should be taken out when working with electricity.
- T Chewing gum in the lab will result in service clean-up activities.
- F Without adult supervision, experiments at home are allowed.
- F Always work alone, so that no one can copy your results.

Safety Equipment Identify the Lab Safety equipment by telling what it is, or drawing what it looks like.






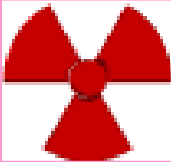
			
Fume Hood	Face Shield	Fire Extinguisher	Apron

### Prep Work

There are 3 things that need to occur prior to starting a Lab. They are:

**Read Everything Carefully and KNOW What is Expected**  
**Prepare a Clear and Clean Working Space to Perform Your Experiment**  
**Get Permission From the Teacher/Supervisor Before You Start**

**WHMIS Safety Symbols** (and other safety symbols)

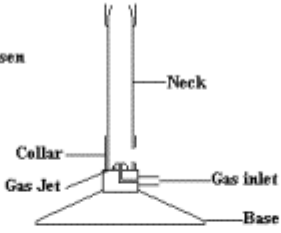


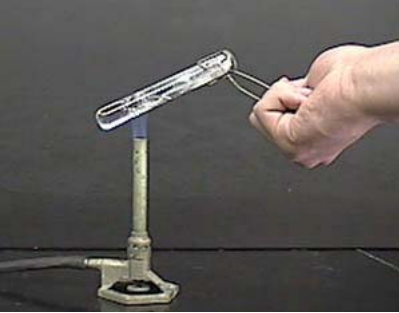
		
<b>Biohazardous</b>	<b>Toxic</b>	<b>Flammable</b>
		
<b>Compressed Gas</b>	<b>Poisonous</b>	<b>Radioactive</b>

WHMIS stands for ...

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM**

**Lab Procedures and Techniques**

(Explain what to do)

<p><b>Lighting a Bunsen Burner (5)</b></p>  <p>The Bunsen Burner</p> <p>Neck</p> <p>Collar</p> <p>Gas Jet</p> <p>Gas inlet</p> <p>Base</p> <p><b>The Two Bunsen Burner Flames</b></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="224 1386 548 1575"> <p><b>Heating Flame (Collar OPEN)</b></p>  <p>Hottest Point</p> <p>Lilac outer flame</p> <p>Blue Cone contains mixing gas &amp; air</p> </div> <div data-bbox="597 1386 860 1575"> <p><b>Safety (Lighting) Flame (Collar CLOSED)</b></p>  <p>Flame is floppy and yellowy-orange in colour</p> </div> </div>	<p><b>Heating Chemicals in a Test Tube (5)</b></p> 
<p><b>Secure connections</b></p>	<p><b>Hold the test tube at an angle</b></p>
<p><b>No flammables around</b></p>	<p><b>Heat the top of the liquid</b></p>
<p><b>Proper air gas mix</b></p>	<p><b>Move in and out of the flame to heat evenly</b></p>
<p><b>Safety equipment</b></p>	<p><b>Point it away from yourself and other people</b></p>

Burns should be treated by applying **COLD WATER** or **ICE** .