

Name  
TA

Science 10  
2022-2023



## Learning Guide # 1: Lab Safety and WHMIS

### **BIG IDEA: Lab Equipment, WHMIS Symbols, and Safety Equipment and Locations**

#### **Fundamental Knowledge (I know)**

- The Different What WHMIS means AND can recognize the various symbols
- How to explain the safety rules that MUST be followed in the lab
- The daily products in my personal life that have WHMIS symbols on them

#### **Curricular Competencies (I can)**

	<b>Proficiency Scale Teacher and Student self assessment (Circle one)</b>	<b>Evidence (How do you know?)</b>
<b>I can:</b> Assess risks and address ethical, cultural, and/or environmental issues associated with their proposed methods.	<b>Emerging (EMG)</b> Initial Understanding  <b>Developing (DEV)</b> Partial/Near Complete Understanding  <b>Proficient (PRF)</b> Complete Understanding  <b>Extending (EXT)</b> Sophisticated Understanding	
Consider the changes in knowledge over time as tools and technologies have developed.	<b>Emerging (EMG)</b> Initial Understanding  <b>Developing (DEV)</b> Partial/Near Complete Understanding  <b>Proficient (PRF)</b> Complete Understanding  <b>Extending (EXT)</b> Sophisticated Understanding	

**Student Signature:**

**Teacher Signature:**

**Date:**

**Instructions** To help guide your learning, make your way through the activities in Option 1, Option 2, or Option 3. You may “mix and match” between the different Option columns.

TOPIC	OPTION 1	OPTION 2	OPTION 3
<b>Lab techniques and Safety Rules</b>	<p><b>Find</b> a video on Lab Techniques and Safety: Crash Course Chemistry #21 (Either this video or your choice...reference it!!!!)</p> <p>(Go to YouTube and search “Chemistry Crash Course 21)</p> <p>And <b>Summarize</b> the safety rules in your own way (ie. Take notes, make a table, poster etc.)</p>	<p><b>Read</b> BC Science 10 pgs. XXII-XXV (these are near the end of the page), then summarize the safety rules in your own way (ie. Take notes, make a table, poster etc.)</p>	<p><b>Choose your own adventure!</b></p> <p>Pick up a planning sheet from the Science Kiosk.</p> <p>Create a plan! Make sure you read through the first page of this LG, as you will need to design ways to learn/practice and show your understanding of the topic(s) and skill(s) (competencies.)</p> <p>You will need to have a teacher approve your plan before beginning the LG.</p>
<b>WHMIS</b>	<p>To learn about the WHMIS symbols, visit:</p> <p><a href="https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html">https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html</a></p>	<p>To learn about the WHMIS symbols, visit</p> <p><a href="https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html">https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html</a></p>	
<b>WHMIS Symbols</b>	<p><b>FIND (Your Choice of Website) Print and Cut-out</b> the pictograms/symbols and definitions and correctly match them together.</p>	<p><b>FIND (Your Choice of Website) Print and Cut-out</b> the pictograms/symbols and definitions and correctly match them together.</p>	
<b>WHMIS in the Real World</b>	<p>In your daily life, <b>find three (3) situations</b> in which you come across WHMIS symbols. <b>Document</b> what the items are, what they are used for, the WHMIS symbols associated with the items and how you would use them safely.</p>	<p>In your daily life, <b>find three (3) situations</b> in which you come across WHMIS symbols. <b>Document</b> what the items are, what they are used for, the WHMIS symbols associated with the items and how you would use them safely.</p>	
<b>Emergency Response Plan</b>	<p>Make a video or comic strip to demonstrate an emergency response <b>plan for a chemical spill or fire in the Science Lab.</b></p>	<p>Make a video or comic strip to demonstrate an emergency response <b>plan for a chemical spill or fire in the Science Lab.</b></p>	
Self Assessment	<p>Reflect on the Fundamental Knowledge and Curricular Competencies. Use the rubric and make goals to improve for your next learning guide.</p>		
Interview or Quiz	<p>See you teacher for an interview or to have a quiz slip signed for the test center. Bring your work and staple it to your quiz when complete.</p>		

Resources can be found at [www.THSSscience.com](http://www.THSSscience.com) or the Science Kiosk

User: **THSS**

Password: **science**