



Learning Guide # 1: Lab Safety, WHMIS, and Chemistry Review

BIG IDEA: WHMIS Symbols, Lab/Safety Equipment and Locations, Chemistry Review

Fundamental Knowledge (I know)

- The Different WHMIS SYMBOLS and what they mean
- How to explain the safety rules that MUST be followed in the lab
- The chemistry basic taught in previous Science courses
- The daily products in my personal life that have WHMIS symbols on them

Curricular Competencies (I can)

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

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
Lab techniques and Safety Rules	<p>Find a video on Lab Techniques and Safety: “Crash Course Chemistry 21” (Either this video or your choice...reference it!)</p> <p>And Summarize the safety rules (10-15) (ie. Take notes, make a table, poster etc.)</p> <p>Demonstrate an emergency response plan for a chemical spill or fire in the Science Lab.</p>	<p>Read BC Science 10 (take notes) pgs. XXII-XXV (these are near the beginning of the book), then summarize the safety rules in your own way (ie. Take notes, make a table, poster etc.)</p> <p>And Summarize the safety rules (10-15) (ie. Take notes, make a table, poster etc.)</p> <p>Demonstrate an emergency response plan for a chemical spill or fire in the Science Lab.</p>	<p>Choose your own adventure!</p> <p>Pick up a planning sheet from the Science Kiosk.</p>
WHMIS	<p>To learn about the WHMIS symbols, visit: https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html</p> <p>Complete the Lab and WHMIS Sheet.</p>	<p>To learn about the WHMIS symbols, visit: https://www.ccohs.ca/teach_tools/chem_hazards/symbols.html</p> <p>(Using your Choice of Website) Print and Cut-out or Draw the pictograms/symbols (at least 7) and include the correct definitions next to the symbols.</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>
WHMIS in the Real World	<p>In your daily life, find three (3) situations in which you come across WHMIS symbols. Document 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, find three (3) situations in which you come across WHMIS symbols. Document what the items are, what they are used for, the WHMIS symbols associated with the items and how you would use them safely.</p>	
Safety Interview	<p>See your teacher for a safety rules interview.</p>	<p>See your teacher for a safety rules interview.</p>	
Science Review	<p>Read & complete the Atomic Theory & Bonding worksheets (Section 4.1).</p> <p>Read & complete the Names & Formulas of Compounds worksheets (Section 4.2).</p> <p>Label and colour a copy of the periodic table in your planner. Include: 4 chemical family names, metals, non-metals, groups, periods & outline the diatomic elements.</p>	<p>Read section 4.1 (pgs. 168-182) and complete questions 1-3, 5-7, 10-14 on pg. 183.</p> <p>Read section 4.2 (pgs. 184-200) and complete questions 1, 4-9, 10 (a-d) & 11 on page 201.</p> <p>Label and colour a copy of the periodic table in your planner. Include: 4 chemical family names, metals, non-metals, groups, periods & outline the diatomic elements.</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 your 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.THSScience.com or the Science Kiosk

User: **THSS**

Password: **science**