



Thomas Haney Secondary School

Science 10

23000 116 Ave, Maple Ridge, B.C. V2X 0T8

Telephone: (604)463-2001

LG 1: Lab Safety/WHMIS and Chemistry Review

(What I need to understand)

BIG IDEAS: What safety considerations need to be taken in the Science Lab? Chemistry Essentials.

(Formulated as a "Big Question")

Learning Standards:	
Fundamental Knowledge <i>(what I need to know)</i> <ul style="list-style-type: none">☆ Safety is an important part of the Science Classroom☆ I know how to be safe in the Science Lab☆ I know the fundamentals of WHMIS☆ The fundamentals of Chemistry	Curricular Competencies <i>(What I need to do)</i> <ul style="list-style-type: none">• I can apply my knowledge of safety to an emergency.• I can use WHMIS when working with chemicals.• I can evaluate potential safety issues and avoid them in the Science Lab.

Assessment of Learning Standards:		
Have an interview to show evidence of the Learning Standards , or elect to take a quiz		
ESSENTIALS (C/C+) I CAN: <ul style="list-style-type: none">☆ Recognize and avoid hazardous situations in the lab area and follow safety procedures☆ Demonstrate the fundamentals of WHMIS☆ Keep myself and others safe in the lab☆ Demonstrate an understanding of atomic structure and the periodic table.	ADVANCED (B) I CAN: <ul style="list-style-type: none">➤ Apply WHMIS to daily life	MASTERY (A) I CAN: <ul style="list-style-type: none">✓ Design and demonstrate an emergency response plan (ie. for a chemical spill or fire) in the lab area

Science 10

Reflection:

After finishing my learning activities what do I understand? How have I answered the BIG Question?

OPTION 1

Choose your own adventure:

- ☆ Pick up an Adventure proposal form from the Science Kiosk
- ☆ Create a plan, include what topics will be covered
- ☆ Get teacher approval for your plan before beginning
- ☆ Bring your approved plan and your evidence of learning to the LG interview

OPTION 2

- ☆ Watch this Crash Course Chemistry [video](#) on safety. Summarize the key safety rules in your own way (ie. Take notes, make a table, poster etc.)
- ☆ To learn about the WHMIS symbols, visit [this link](#).
- ☆ Draw or Print out WHMIS pictograms/symbols and definitions and correctly match them together
- ☆ In your Science 10 textbook read pages 168-180 and complete the section 4.1 worksheets (BLM pages 60-63).
- ☆ Label and color a copy of the periodic table in your planner. Be sure to include: metals, non metals, transition metals, metaliods, diatomic elements, halogens, nobel gases, alkali metals and alkaline earth metals.

OPTION 3

- ☆ Read BC Science 10 pgs. XXII-XXV, then summarize the key safety rules in your own way (ie. Take notes, make a table, poster etc.)
- ☆ To learn about the WHMIS symbols, visit [this link](#).
- ☆ Create a visual representation for lab safety and WHMIS symbols, including description for each.
- ☆ In your Science 10 textbook read pages 168-180 and complete the section 4.1 worksheets (BLM pages 60-63).
- ☆ Label and color a copy of the periodic table in your planner. Be sure to include: metals, non metals, transition metals, metaliods, diatomic elements, halogens, nobel gases, alkali metals and alkaline earth metals.