

## UNIT 2 CHEMISTRY

2.1 How and why do we study matter?		
	Activity	Date
	Handout: Key Terms	
	Textbook: Read pages 82-85	
	Textbook: Read pages 86-93	
	Video: Chemistry	
	Video: Pure Substances and Mixtures	
	Video: Physical and Chemical Changes	
	Handout: Elements, Compounds, and Mixtures	
	Video: Lab Techniques and Safety	
	Handout: Be Prepared; Be Safe	
	Video: WHMIS	
	Handout: WHMIS 2015	
	OPTIONAL: Online WHMIS Training	
	Choose ONE:	
	Textbook: page 94 Dig Deeper	
	Handout: Explore Safety Data Sheets	
2.2 How does the periodic table organize the elements?		
	Textbook: Read pages 100-101	
	Handout: Elements on Brick World	
	Textbook: Read pages 102-113	
	Video: Periodic Table	
	Video: Periodic Table Song	
	Video: How to Memorize the Periodic Table	
	Video: Playlist Periodic Videos	
	Video: Properties of Elements	
	Online Activity: Interactive Periodic Table	
	Handout: Observing the Elements	
	Handout: Using the Periodic Table	
	Handout: Predict Property	
	Choose ONE:	
	Handout: Other Contributors to the Periodic Table	
	Textbook: page 114 Dig Deeper	
	Handout: What makes silicon so special?	
	Textbook: page 116 Campaign to Reduce E-waste	
	Choose ONE:	
	Handout: Present an Element at ElementCon	
	Handout: Meet the Elements	
2.3 How can atomic theory explain patterns in the periodic table?		
	Textbook: Read pages 122-131	
	Handout: Model Bohr Atoms	
	Handout: Parts of an Atom	
	Handout: Bohr Diagrams	
	Handout: Valence Electrons and Group Numbers	
	Video: Kinetic Molecular Theory	
	Video: Atomic Theory	
	Online Activity: Build an Atomic Interactive	
	Choose ONE:	
	Handout: A Noble Gas is Hard to Find	
	Textbook: page 128 Dig Deeper	
	Textbook page 132 Dig Deeper	

<b>2.4 How do elements combine to form compounds?</b>		
	Textbook: Read pages 136-149	
	Video: What are covalent compounds?	
	Video: What are ions and ionic compounds?	
	Handout: Patterns in Ion Formation	
	Handout: Model a Compound	
Choose ONE:	Textbook: page 139 Dig Deeper	
	Textbook: page 150 Dig Deeper	
<b>2.5 How do we name and write formulas for compounds?</b>		
	Textbook: Read pages 154-171	
	Video: Chemical nomenclature	
	Video: Naming ionic compounds	
	Video: Writing chemical formulas	
	Handout: Names in Everyday Life	
	Handout: Naming Binary Ionic Compounds	
	Handout: Writing Names and Formulas of Binary Ionic Compounds Containing Multivalent Metals	
	Handout: Common Polyatomic Ions	
	Handout: Writing Names and Formulas of Compounds with a Polyatomic Ion	
Choose ONE:	Textbook page 166 Dig Deeper	
	Textbook page 167 Science at Work	
Choose ONE:	Handout: How can you make a game out of names and formulas of ionic compounds?	
	Textbook: page 172 What can we do about overconsumption of salt and sugar?	
<b>Unit 2 Assessment</b>		
	Handout: What are the effects of mining for metals and industrial minerals in B.C.?	
	<p>Study for unit quiz:</p> <ul style="list-style-type: none"> <li>- memorize the first 10 elements of the periodic table. You will be required to know the following information about each of the 10 elements: chemical name and chemical symbol.</li> <li>- be able to label the Group/Family names on a blank periodic table, including: alkali metals, alkali earth metals, transition metals, non-metals, halogens, noble gases, lanthanide metals and actinide metals</li> <li>- be able to name ionic compounds</li> <li>- be able to write ionic compounds from name</li> <li>- recognize if a compound is ionic or covalent</li> </ul>	