Nourfoundland Q Labraday		
Newfoundiand & Labrador		
	Grade 5	
	Unit i: Integrated Skills	
<u>General Curriculum</u> Outcomes:	GCO 2 (Skills): Students will develop the skills required for scientific and technological inquiry, for solving problems, for communicating scientific ideas and results, for working collaboratively, and for making informed decisions.	
Specific Curriculum	1.0 propose questions to investigate and practical problems to solve	
<u>Outcomes:</u>	6.0 devise procedures to carry out a fair test and to solve a practical problem	
	7.0 identify appropriate tools, instruments, and materials to complete investigations	
	8.0 carry out procedures to explore a given problem and to ensure a fair test, controlling major variables	
	9.0 select and use tools	
	10.0 follow procedures	
	11.0 select and use tools for measuring	
	12.0 make observations and collect information that is relevant to the question or problem	
	14.0 record observations	
	23.0 identify potential applications of findings	
	25.0 communicate questions, ideas, and intentions, and listen to others while conducting investigations	
	26.0 collaborate with others to devise and carry out procedures	
	27.0 ask others for advice or opinions	

Processing Chemical Reactions

Unit 3: Properties and Changes of Materials		
General Curriculum	GCO 1 (STSE): Students will develop an understanding of the nature of	
Outcomes:	science and technology, of the relationships between science and	
	technology, and of the social and environmental contexts of science and	
	technology.	
	GCO 3 (Knowledge): Students will construct knowledge and	
	understandings of concepts in life science, physical science, and Earth	
	and space science, and apply these understandings to interpret,	
	Integrate, and extend their knowledge.	
<u>Outcomes:</u>	56.0 group materials as solids, liquids, or gases, based on their properties	
	57.0 identify properties that allow materials to be distinguished from one	
	another	
	60.0 describe examples of interactions between materials that result in	
	the production of a gas	
	CE Q identify the source of the materials found in an object and describe	
	the changes to the natural materials required to make the object	
	Grade 7	
Unit 3: Mixtures and Solutions		
Skills Curriculum	208-2 identify questions to investigate arising from practical problems	
Outcomes:	and issues	
	209-1 carry out procedures controlling the major variables to study the	
	effect of temperature on solubility	
	209-3 use instruments effectively and accurately for collecting data	
	209-6 use tools and apparatus safely	
Specific Curriculum	307-1 distinguish between pure substances and mixtures using the	
Outcomes:	particle theory of matter	
	307-2 identify and separate the components of mixtures	
	207 A describe the concentrations of colutions qualitatively and	
	quantitatively	
	quantitatively	

Grade 9		
Unit 2: Atoms, Elements, and Compounds		
Skills Curriculum Outcomes:	208-2 identify questions to investigate arising from practical problems and issues	
	209-1 carry out procedures controlling the major variables to study the effect of temperature on solubility	
	209-3 use instruments effectively and accurately for collecting data	
	209-6 use tools and apparatus safely	
Specific Curriculum Outcomes:	307-12 investigate materials and describe them in terms of their physical properties	
	307-13 describe changes in the properties of materials that result from some common chemical reactions	

Grade 10		
Unit 2: Chemical Reactions		
<u>General Curriculum</u> <u>Outcomes:</u>	GCO 1 (STSE): Students will develop an understanding of the nature of science and technology, of the relationships between science and technology, and of the social and environmental contexts of science and technology.	
	GCO 2 (Skills): Students will develop the skills required for scientific and technological inquiry, for solving problems, for communicating scientific ideas and results, for working collaboratively, and for making informed decisions.	
	GCO 3 (Knowledge): Students will construct knowledge and understandings of concepts in life science, physical science, and Earth and space science, and apply these understandings to interpret, integrate, and extend their knowledge.	
	GCO 4 (Attitudes): Students will be encouraged to develop attitudes that support the responsible acquisition and application of scientific and technological knowledge to the mutual benefit of self, society, and the environment.	
Specific Curriculum	2.0 design an experiment identifying and controlling major variables	
<u>Outcomes:</u>	6.0 evaluate and select appropriate instruments for collecting evidence and appropriate processes for problem solving, inquiring, and decision making	
	8.0 carry out procedures controlling the major variables and adapting or extending procedures where required	
	15.0 demonstrate a knowledge of WHMIS standards by selecting and applying proper techniques for handling and disposing of lab materials	
	29.0 work cooperatively with team members to develop and carry out a plan, and troubleshoot problems as they arise	
	44.0 represent chemical reactions and the conservation of mass using molecular models and balanced symbolic equations	
	47.0 describe how neutralization involves tempering the effects of an acid with a base or vice versa	