

# CURRICULUM ALIGNMENT – Baseload vs. Peak Demand

## Manitoba

Grade	Course Name and Number	Topic	Specific Outcome
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-3d:</b> Summarize relevant data and consolidate existing arguments and positions related to an STSE issue.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-3e:</b> Determine criteria for the evaluation of an STSE decision.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-3f:</b> Formulate and develop options which could lead to an STSE decision.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-5c:</b> Record, organize and display data using an appropriate format. Include: labelled diagrams, graphs, multimedia.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-6a:</b> Interpret patterns and trends in data and infer and explain relationships.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-7b:</b> Select the best option and determine a course of action to implement an STSE decision.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-7c:</b> Implement an STSE decision and evaluate its effects.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-7d:</b> Reflect on the process used to arrive at or to implement an STSE decision and suggest improvements.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-9c:</b> Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-9e:</b> Be sensitive and responsible in maintaining a balance between the needs of humans and a sustainable environment.
9	Senior 1 Science	Cluster 0: Overall Skills and Attitudes	<b>Specific Learning Outcome S1-0-9f:</b> Demonstrate personal involvement and be proactive with respect to STSE issues.
9	Senior 1 Science	Cluster 3: Nature of Electricity	<b>Specific Learning Outcome S1-3-23:</b> Recognize and explain the importance of incorporating principles of electrical energy conservation into the decision-making process.

12	Interdisciplinary Topics in Science 40S	GLOB: Science, Technology, Society and the Environment	<b>Specific Learning Outcome SLO B1:</b> Identify and explore a current STSE issue.
12	Interdisciplinary Topics in Science 40S	GLOB: Science, Technology, Society and the Environment	<b>Specific Learning Outcome SLO B4:</b> Recommend an alternative or identify a position and provide justification.
12	Interdisciplinary Topics in Science 40S	GLOB: Science, Technology, Society and the Environment	<b>Specific Learning Outcome SLO B5:</b> Propose a course of action related to an STSE issue.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	<b>Specific Learning Outcome SLO C21:</b> Demonstrate confidence in their ability to carry out investigations and to address STSE-related issues.
12	Interdisciplinary Topics in Science 40S	GLOC: Scientific and Technical Skills and Attitudes	<b>Specific Learning Outcome SLO C24:</b> Be sensitive and responsible in maintaining a balance between the needs of humans and a sustainable environment.
12	World Geography	Unit 4: World Resources, Energy and Environment	<p><b>2: World Energy: Present Status and Future Prospects:</b></p> <ul style="list-style-type: none"> <li>• What is energy? What is the relationship between energy and power?</li> <li>• Why is energy so important today in developed and developing countries? How is quality of life affected by the amounts of energy available?</li> <li>• What are the common forms of energy used today in developed and developing countries? Which ones are of the greatest importance? Of lesser importance? How have energy sources changed over time?</li> <li>• How does energy consumption compare between developed and developing countries? What are the implications? What changes have occurred recently?</li> <li>• Where are the reserves of the important energy sources? What are the implications? What are the problems associated with depending heavily on one energy source?</li> <li>• What are the benefits and problems associated with various forms of energy?</li> <li>• What alternate energy sources are being researched today? With what success? What predictions can be made about the future with respect to energy?</li> </ul>
12	World Geography	Unit 4: World Resources, Energy and Environment	<p><b>3: Present Challenges:</b></p> <ul style="list-style-type: none"> <li>• What conclusions can be drawn if present trends in resource and energy development continue?</li> <li>• What changes need to be made in energy production and consumption in order to implement the principles and guidelines of sustainable development?</li> </ul>