

Green Mining

Manitoba	
Grade 7	
Cluster 1: Interactions within Ecosystems	
<u>Specific Learning Outcomes:</u>	<p>7-1-05. Identify and describe positive and negative examples of human interventions that have an impact on ecological succession or the makeup of ecosystems. Examples: positive — protecting habitats, reintroducing species; negative — preventing natural fires, introducing non-indigenous species, draining wetlands for agriculture or housing...</p> <p>7-1-06. Identify environmental, social, and economic factors that should be considered in the management and preservation of ecosystems. Examples: habitat preservation, recreation, employment, industrial growth, resource development...</p> <p>7-1-07. Propose a course of action to protect the habitat of a particular organism within an ecosystem. Examples: protect the nesting habitat of a given bird in a local wetland...</p>
Cluster 0: Overall Skills and Attitudes	
<u>Specific Learning Outcomes:</u>	<p>7-0-1d. Select and justify a method to be used in finding a solution to a practical problem.</p> <p>7-0-2a. Access information using a variety of sources. Examples: libraries, magazines, community resource people, outdoor experiences, videos, CD-ROMs, Internet...</p> <p>7-0-4c. Work cooperatively with team members to carry out a plan, and troubleshoot problems as they arise.</p> <p>7-0-4d. Assume various roles to achieve group goals.</p> <p>7-0-7d. Propose and justify a solution to the initial problem.</p> <p>7-0-7g. Communicate methods, results, conclusions, and new knowledge in a variety of ways</p> <p>7-0-8g. Discuss societal, environmental, and economic impacts of scientific and technological endeavours. Include: local and global impacts.</p>

Grade 8	
Cluster 4: Water Systems	
<u>Specific Learning Outcomes:</u>	<p>Identify substances that may pollute water, related environmental and societal impacts of pollution, and ways to reduce or eliminate effects of pollution</p> <p>Identify environmental, social, and economic factors that should be considered in the management of water resources. Examples: ecosystem preservation, employment, recreation, industrial growth, water quality...</p>
Cluster 0: Overall Skills and Attitudes	
<u>Specific Learning Outcomes:</u>	<p>8-0-1d. Select and justify a method to be used in finding a solution to a practical problem.</p> <p>8-0-2a. Access information using a variety of sources. Examples: libraries, magazines, community resource people, outdoor experiences, videos, CD-ROMs, Internet...</p> <p>8-0-4c. Work cooperatively with team members to carry out a plan, and troubleshoot problems as they arise.</p> <p>8-0-4d. Identify and assume various roles to achieve group goals.</p> <p>8-0-7d. Propose and justify a solution to the initial problem.</p> <p>8-0-7g. Communicate methods, results, conclusions, and new knowledge in a variety of ways</p> <p>8-0-8g. Discuss societal, environmental, and economic impacts of scientific and technological endeavours. Include: local and global impacts.</p>

Grade 10	
Cluster 1: Dynamics of Ecosystems	
<u>Specific Learning Outcomes:</u>	S2-1-10. Investigate how human activities affect an ecosystem and use the decision-making process to propose a course of action to enhance its sustainability. Include: impact on biogeochemical cycling, population dynamics, and biodiversity.
Cluster 0: Overall Skills and Attitudes	
<u>Specific Learning Outcomes:</u>	<p>S2-0-1c. Identify STSE issues which could be addressed</p> <p>S2-0-1d Identify stakeholders and initiate research related to an STSE issue</p> <p>S2-0-2a Select and integrate information obtained from a variety of sources</p> <p>S2-0-2c Summarize and record information in a variety of forms</p> <p>S2-0-2d Review effects of past decisions and various perspectives related to an STSE issue</p> <p>S2-0-3d Summarize relevant data and consolidate existing arguments and positions related to an STSE issue</p> <p>S2-0-3e Determine criteria for the evaluation of an STSE decision</p> <p>S2-0-3f Formulate and develop options which could lead to an STSE decision</p> <p>S2-0-4e Work cooperatively with group members to carry out a plan, and troubleshoot problems as they arise</p> <p>S2-0-4f Assume the responsibilities of various roles within a group and evaluate which roles are most appropriate for given tasks</p> <p>S2-0-5d Evaluate, using pre-determined criteria, different STSE options leading to a possible decision</p> <p>S2-0-7b Select the best option and determine a course of action to implement an STSE decisions</p> <p>S2-0-8d Describe examples of how technologies have evolved in response to changing needs and scientific advances</p> <p>S2-0-9c Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues</p> <p>S2-0-9e Be sensitive and responsible in maintaining a balance between the needs of humans and a sustainable environment</p>