

Green Mining

Saskatchewan	
Grade 4	
Habitats and Communities	
<u>Outcomes:</u> HC4.3 Assess the effects of natural and human activities on habitats and communities, and propose actions to maintain or restore habitats.	<u>Indicators:</u> (i) Collaboratively develop and carry out (if feasible) a plan to preserve or restore one or more components of a local habitat.
Grade 6	
Diversity of Living Things	
<u>Outcomes:</u> DL6.1 Recognize, describe, and appreciate the diversity of living things in local and other ecosystems, and explore related careers.	<u>Indicators:</u> (f) Identify examples of science and technology-related careers and workplaces which require an understanding of the diversity of living things (e.g., naturalist, zookeeper, palaeontologist, and wildlife biologist).

Grade 7

Interactions in Ecosystems

Outcomes:

IE7.4 Analyze how ecosystems change in response to natural and human influences, and propose actions to reduce the impact of human behaviour on a specific ecosystem.

Indicators:

(b) Propose ecological questions to investigate arising from practical problems and issues (e.g., “What is the impact of clearing land for farming?”, “How could a community prolong the life of its landfill site?”, “How could a community reduce the amount of garbage it produces?”, “What is the impact of a sports field being constructed in a particular location?”).

(d) Identify and refine questions and problems related to the effects of natural or human influences on a particular ecosystem.

(f) Propose a course of action or defend a given position on a local ecological issue or problem related to natural or human influences on a particular ecosystem, taking into account scientific, societal, technological, and environmental factors.

(g) Be sensitive and responsible in maintaining a balance between human needs and a sustainable environment by considering both immediate and long-term effects of their course of action or stated position.

(h) Provide specific examples to illustrate that scientific and technological activities related to ecosystems take place in a variety of individual or group settings, locally and globally, and by men and women from a variety of cultural backgrounds (e.g., individual and community gardening, impact studies done by environmental engineers, and research done by teams of international scientists).

Grade 8	
Water Systems on Earth	
<u>Outcomes:</u> WS8.3 Analyze natural factors and human practices that affect productivity and species distribution in marine and fresh water environments.	<u>Indicators:</u> (i) Provide examples of how individuals and public and private Canadian institutions contribute to the sustainable stewardship of water through traditional knowledge and scientific and technological research and endeavours related to aquatic environments (e.g., marine research institutes, universities, federal and provincial government departments, and ecological groups) and identify possible careers related to the study and stewardship of water.
Grade 10	
Climate and Ecosystem Dynamics	
<u>Outcomes:</u> SCI10-CD1 Assess the implications of human actions on the local and global climate and the sustainability of ecosystems.	<u>Indicators:</u> Develop, present and defend a position or course of action based on personal research related to mitigating the effects of global or local climate change or to enhancing the sustainability of an ecosystem, taking into account human and environmental needs.