

Guardians of the Grasslands

CURRICULUM CONNECTIONS (GR. 4, 7, 10 & 12)

GRADE 4 SOCIAL STUDIES

Cluster 3: Living in Manitoba	
4-KL-023	Identify issues related to environmental stewardship and sustainability in Manitoba.
4-VL-006	Appreciate Manitoba's natural environment

GRADE 4 SCIENCE

Cluster 1: Habitats and Communities	
4-1-02	Recognize that each plant and animal depend on a specific habitat to meet its needs.
4-1-07	Investigate and describe a variety of local and regional habitats and their associated populations of plants and animals.
4-1-09	Recognize that plant and animal populations interact within a community.
4-1-13	Predict, based on their investigations, how the removal of a plant or animal population may affect the rest of the community.
4-1-14	Investigate natural and human-caused changes to habitats and identify resulting effects on plant and animal populations. Include: endangerment, extinction.

GRADE 7 SOCIAL STUDIES

Skills	
7-S-103	Make decisions that reflect principles of environmental stewardship and sustainability.
7-S-301	Evaluate the advantages and disadvantages of solutions to a problem.
7-S-302	Draw conclusions based on research and evidence.
7-S-303	Evaluate personal assumptions based on new information and ideas.
7-S-306	Assess the validity of information sources. Examples: purpose, context, authenticity, origin, objectivity, evidence, reliability...
7-S-400	Listen to others to understand their perspectives.
Cluster 4: Human Impact in Europe or the Americas	
7-KL-029	Give examples of the impact of human activity on the natural environment in a society of Europe or the Americas. Examples: endangered plant and animal species, reforestation, restoration of wetlands...
7-KE-053	Describe sustainable development issues in a society of Europe or the Americas.

GRADE 7 SCIENCE

Cluster 1: Interactions Within Ecosystems	
7-1-01	Use appropriate vocabulary related to their investigations of interactions within ecosystems. Include: ecosystem, biosphere, abiotic, biotic, organisms, ecological succession, photosynthesis, cellular respiration, ecological pyramid, bioaccumulation, scavengers, decomposers, micro-organisms.
7-1-02	Define ecosystem and describe various examples that range from the microscopic to the entire biosphere...
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.
7-1-06	Identify environmental, social, and economic factors that should be considered in the management and preservation of ecosystems.

GRADE 10 GEOGRAPHIC ISSUES OF THE 21ST CENTURY

Cluster 1: Geographic Literacy	
S2-VL-005	Respect the Earth as a complex environment in which humans have important responsibilities.
S2-KL-018	Explain the importance of stewardship in the preservation of the Earth’s complex environment.
Cluster 3: Food from the Land	
S2-KL-021	Identify physical conditions required to produce major food crops. Examples: topography, soil, climate, water...
S2-KL-023	Describe the impact of various agricultural practices on the physical environment. Examples: soil erosion, water quality, soil fertility...
S2-KI-005	Identify human factors affecting the production and use of various types of food. Examples: cultural, economic, political, marketing...
S2-KH-034	Give examples of ways in which food production has changed over time. Examples: soil conservation strategies, technological change
S2-KL-022	Explain ways in which natural- and human-caused phenomena affect food production.
S2-VL-006	Be willing to consider the environmental consequences of their food choices.
S2-VP-010	Be willing to consider the economic and political influence of their food choices. Examples: food fashions, food aid, food shortages...

GRADE 10 SCIENCE

Cluster 1: Dynamics of Ecosystems	
S2-1-05	Investigate and discuss various limiting factors that influence population dynamics. Include: density-dependent and density-independent factors.
S2-1-06	Construct and interpret graphs of population dynamics
S2-1-07	Describe potential consequences of introducing new species and species extinction on an ecosystem.
S2-1-08	Observe and document a range of organisms that illustrate the biodiversity within a local or regional ecosystem.
S2-1-09	Explain how the biodiversity of an ecosystem contributes to its sustainability.
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

GRADE 12 GLOBAL ISSUES: CITIZENSHIP & SUSTAINABILITY

Relevant to the Following Areas of Inquiry	
	Climate Change
	Consumerism
	Environment
	Sustainable Agriculture

GRADE 12 BIOLOGY

Part 2: Biodiversity – Unit 5: Conservation of Biodiversity	
B-12-5-01	Discuss a variety of reasons for maintaining biodiversity. Include: maintaining a diverse gene pool, economic value, and sustainability of an ecosystem
B12-5-02	Describe strategies used to conserve biodiversity.
B12-5-04	Investigate an issue related to the conservation of biodiversity.