

Environmental Initiative

Description: Examine how human activity impacts the environment, through fun interactive games. Students will leave with a better understanding of simple ways they can help decrease air pollution and food waste.

Learning Skills: Initiative

Grade 5- 8: Health and Physical Education

Overall:

Living Skills:

- Personal Skills
- Interpersonal Skills
- Critical and Creative Thinking

A. Active Living

- A1. Active Participation
- A2. Physical Fitness
- A3. Safety

B. Movement Competencies: Skills, Concepts, and Strategies

- B1. Movement Skills and Concepts
- B2. Movement Strategies

Grade 5: Social Studies

Overall:

Strand B: People and Environments: The Role of Government and Responsible Citizenship

B2. Use the social studies inquiry process to investigate Canadian social and/or environmental issues from various perspectives, including the perspectives of the level of government responsible for addressing the issues.

Specific:

B2.1 Formulate questions to guide investigations into social and/or environmental issues in Canada, from various perspectives, including the perspective of the level of government responsible for addressing the issues.

Grade 5: Science and Technology

Overall:

Understanding Life Systems: Human Organ Systems

1. Analyse the impact of human activities and technological innovation on human health.

Understanding Matter and Energy: Properties of, and Changes in Matter.

1. Evaluate the social and environmental impacts of processes used to make everyday products

Understanding Earth and Space Systems: Conservation of Energy and Resources.

1. Analyse the immediate and long-term effects of energy and resource use on society and the environment, and evaluate options for conserving energy and resources.

3. Demonstrate an understanding of the various forms and sources of energy and the ways in which energy can be transformed and conserved.

Specific

Understanding Life Systems: Human Organ Systems

1.1 Assess the impact of social and environmental factors on human health, and propose ways in which individuals can reduce the harmful effects of these factors and take advantage of those that are beneficial.

Understanding Matter and Energy: Properties of, and Changes in Matter

1.1 Evaluate the environmental impacts of processes that change one product into another product through physical or chemical changes.

1.2 Assess the social and environmental impacts of using processes that rely on chemical changes to produce consumer products, taking different perspectives into account, and make a case for maintaining the current level of use of the product or for reducing it.

Understanding Earth and Space Systems: Conservation of Energy and Resources

1.1 Analyse the long-term impacts on society and the environment of human uses of energy and natural resources, and suggest ways to reduce these impacts.

1.2 Evaluate the effects of various technologies on energy consumption, and propose ways in which individuals can improve energy conservation.

3.2 Identify renewable and non-renewable sources of energy.

Grade 6: Social Studies

Overall

Strand B People and Environment: Canada's Interactions with the Global Community

B2. Use the social studies inquiry process to investigate some global issues of political, social, economic, and/or environmental importance, their impact on the global community, and responses to the issues.

Specific

B2.1 Formulate questions to guide investigations into global issues of political, social, economic, and/or environmental importance, their impact on the global community, and responses to the issues.

Grade 6: Science and Technology

Overall

Understanding Life Systems: Biodiversity

1. Assess human impacts on biodiversity, and identify ways of preserving biodiversity.

Understanding Matter and Energy: Electricity and Electrical Devices

1. Evaluate the impact of the use of electricity on both the way we live and the environment.

Specific

Understanding Life Systems: Biodiversity

1.1 Analyse a local issue related to biodiversity, taking different points of view into consideration, propose an action that can be taken preserve biodiversity, and act on the proposal.

1.2 Assess the benefits that human societies derive from biodiversity and the problems that occur when biodiversity is diminished.

Understanding Matter and Energy: Electricity and Electrical Devices

1.1 Assess the short and long-term environmental effects of the different ways in which electricity is generated in Canada, including the effect of each method on natural resources and living things in the environment.

1.2 Assess opportunities for reducing electricity consumption at home or at school that could affect the use of non-renewable resources in a positive way or reduce the impact of electricity generation on the environment.

Grade 7: Geography

Overall Themes:

Patterns in Physical Geography

- Explain how patterns of physical geography affect human activity around the world.

Natural Resources

- Describe how humans acquire, manage, and use natural resources, and identify factors that affect the importance of those resources.
- Use a variety of resources and tools to gather, process, and communicate geographic information about the distribution, use, and importance of natural resource.
- Describe positive and negative ways in which human activity can affect resource sustainability and the health of the environment.

Grade 7: Science and Technology

Overall

Understanding Life Systems: Interaction in the Environment

1. Assess the impacts of human activities and technologies on the environment, and evaluate ways of controlling these impacts.
3. Demonstrate an understanding of interactions between and among biotic and abiotic elements in the environment.

Understanding Matter and Energy: Pure Substances and Mixtures

1. Evaluate the social and environmental impacts of the use and disposal of pure substances and mixtures.

Understanding Earth and Space Systems: Heat in the Environment

1. Assess the costs and benefits of technologies that reduce heat loss or heat-related impacts on the environment.

Specific

Understanding Life Systems: Interaction in the Environment

- 1.1 Assess the impact of selected technologies on the environment.
- 3.1 Demonstrate an understanding of an ecosystem as a system of interactions between living organisms and their environment.
- 3.2 Identify biotic and abiotic elements in ecosystem, and describe the interactions between them.
- 3.3 Describe the roles and interactions of producers, consumers, and decomposers within an ecosystem.
- 3.5 Describe how matter is cycled within the environment and explain how it promotes sustainability.
- 3.7 Explain why an ecosystem is limited in the number of living things that it can support.
- 3.8 Describe ways in which human activities and technologies alter balances and interactions in the environment.
- 3.9 Describe Aboriginal perspectives on sustainability and describe ways in which they can be used in habitat and wildlife management.

Understanding Matter and Energy: Pure Substances and Mixtures

- 1.1 Assess positive and negative environmental impacts related to the disposal of pure substances and mixtures.
- 1.2 Assess the impact on society and the environment of different industrial methods of separating mixtures and solutions.

Understanding Life Systems: Heat in the Environment

- 1.1 Assess the social and environmental benefits of technologies that reduce heat loss or transfer.
- 1.2 Assess the environmental and economic impacts of using conventional and alternative forms of energy.

Grade 8: Science and Technology

Overall

Understanding Earth and Space Systems: Water Systems

1. Assess the impact of human activities and technologies on the sustainability of water resources.
3. Demonstrate an understanding of the characteristics of the earth's water systems and the influence of water systems on a specific region.

Specific

Understanding Earth and Space Systems: Water Systems

- 1.1 Evaluate personal water consumption, compare it with personal water consumption in other countries, and propose a plan of action to reduce personal water consumption to help address water sustainability issues.
- 1.3 Assess the impact on local and global water systems of a scientific discovery or technological innovation
- 3.3 Explain how human and natural factors cause changes in the water table.
- 3.4 Identify factors that affect the size of glaciers and polar ice caps, and describe the effects of these changes on local and global water systems.