

# CARBON FOOTPRINT

*Learning Outcomes for Grades 5-12*

*Prepared by [Climate Change Connection](#)*

Below are suggestions for achieving curriculum outcomes in various subjects. Depending on the lesson planned, students should be able to achieve some of the following learning outcomes.

## **Grade 5 Social Studies & Science**

- S-103 Make decisions that reflect care, concern, and responsibility for the environment.
- 5-1-15 Explain how human health may be affected by lifestyle choices and natural-and-human caused environmental factors.
- 5-4-18 Recognize that climates around the world are ever changing, and identify possible explanations.

## **Grade 6 Social Studies & Science**

- S-103 Make decisions that reflect care, concern, and responsibility for the environment.
- VL-011 Value the natural environment.
- 6-3-18 Describe factors that affect the consumption of electrical energy, and outline an action plan to reduce electrical consumption at home, at school, or in the community.

## **Grade 7 Social Studies**

- S-103 Make decisions that reflect the principles of sustainable development.
- KC-004 Describe ways in which their personal actions may affect quality of life for people elsewhere in the world.
- KL-026 Identify human activities that contribute to climate change.
- KL-027 Describe social, environmental, and economic consequences of climate change.
- KE-054 Give examples of the environmental and social impact of consumerism in the local community and in a society of Europe or the Americas.
- VL-009 Be willing to take actions to help sustain the natural environment in Canada and the world.

- VE-017 Be willing to consider the consequences of their consumer choices

### **Grade 8 Social Studies & Science**

- S-103 Make decisions that reflect the principles of sustainable development.
- VI-004 Be willing to consider differing world view.
- VL-008 Appreciate the importance of sustaining the natural environment for future societies.
- 8-4-18 Identify environmental, social, and economic factors that should be considered in the management of water resources.

### **Grade 9 Social Studies**

- KE-048 Evaluate the implications of living in a consumer based economy
- KE-051 Analyze possible consequences of their consumer choices.
- VE-017 Be willing to consider the impact of their consumer choices.
- VL-007 Be willing to make personal choices to sustain the environment.

### **Grade 10 Social Studies & Science**

- KC-002 Describe sustainability issues related to natural resource extraction and consumption.
- VP-009 Be willing to consider the implications of personal choices regarding natural resources.
- VG-008 Be willing to consider the social and environmental impacts of their consumer choices.
- KL-030 Describe urban environmental and economic issues.
- 10-1-10 Investigate how human activities affect an ecosystem and use the decision making model to propose a course of action to enhance its sustainability.
- 10-4-08 Discuss potential consequences of climate change.

### **Grade 11 Current Topics in the Sciences, example themes:**

- What in the World Is Climate Change?
- Environmental Interactions
- Global Warming: Fact or Fiction?
- Is the World Doing Enough to Reduce Pollution?

### **Grade 12**

#### Interdisciplinary Topics in Science

- GLO B - Science, Technology, Society, and the Environment: Explore problems

and issues that demonstrate interdependence among science, technology, society and the environment within the context of sustainability

- GLO C – Scientific and Technological Skills and Attitudes: Demonstrate appropriate inquiry, problem-solving, and decision-making skills and attitudes, for exploring scientific and/or technological issues and problems.

Global Issues: Citizenship and Sustainability