Environmental Education Programs

for Schools



You're Invited!

As part of the City of Greater Sudbury's commitment to waste diversion education for youth, your classes* are invited to participate in an educational session.

- **The following options are available:**
  - In-class presentations
  - Virtual presentations
  - Sessions held in the Environmental Services Education Centre located at 1805 Frobisher St in Sudbury, next door to the Recycling Centre.
- **Enclosed you will find a list of programs geared to each of the target grades and linked to the school curriculum's fundamental concepts and specific expectations.**

To book a session for your class, please choose your program(s), tour and/or additional activities, then fill out this web form or call or live chat with 3-1-1 to make a request.

Note: Education Centre capacity is approximately 42.

Together we can make a difference.
Sincerely,
Environmental Services Staff

**This programming is offered to schools within the City of Greater Sudbury limits.*



Environmental Education Programs

Any Grade

Popular: A **general lesson** on recycling, organics, hazardous waste and garbage, and the importance of reducing and properly sorting waste, is offered to any grade (tailored for the age group). It also has links to the curriculum.

Time *(min.)*
45

Subject and sub-category	Curriculum section and lesson	City Environmental Program	Time *(min.)*
Grade 3			
Science and Technology *Earth and Space Systems* *– Soils in the Environment*	E2.6 Describe the process of composting, and explain some benefits of composting	Students are introduced to the school and residential organic composting programs in Greater Sudbury. Students will learn which items are and are not acceptable in the program, how to package the organics and why composting is beneficial. They will learn what happens to their organics after they place it at the roadside and how it eventually becomes compost. Home composting methods will also be explored. After the lesson, the students' knowledge will be tested and key points will be reinforced.	45
Science and Technology *Earth and Space Systems* *– Soils in the Environment*	E2.2 Identify different substances that are commonly added to, or absorbed by, the soil, and describe their effects on soil health *(e.g., pesticides, fertilizers, salt)*	Students are introduced to natural soil composition (humus, air, water, minerals). They will discuss what can and can't be seen in soils. A distinction will be made between natural and chemical fertilizers and pesticides. They will explore the disadvantages of chemical products and how they can be replaced by less harmful natural products. Students will learn about hazardous waste, how to dispose of it properly and why it is important that they do not throw it in the garbage or pour it down the drain. After the lesson, their knowledge will be tested and key points will be reinforced.	45
Grade 4			
Science and Technology *Earth and Space Systems* *– Rocks, Minerals, and Geological Processes*	E1.2 Assess social and environmental impacts of extracting and refining rocks and minerals and of manufacturing, recycling, and disposing of products derived from rocks and minerals, while taking various perspectives into account	Students are introduced to the lifecycle of a product via a case study of an aluminum can. They will learn the destination and end product of each waste stream (green cart, blue box and garbage). Emphasis is placed on the importance of recycling rather than depleting non-renewable resources. The lesson is concluded with tips on how to reduce, reuse and recycle. After the lesson, the students' knowledge will be tested and key points will be reinforced. It is suggested that the teacher goes over mining and its effects before the session.	60



Environmental Education Programs *(continued)*

Subject and sub-category	Curriculum section and lesson	City Environmental Program	Time *(min.)*
Grade 5			
Science and Technology *Matter and Energy* *– Properties of and Changes in Matter*	C1 Assess the impacts on society and the environment of various processes and materials used in the manufacture of common products, and ways to mitigate negative impacts	The lesson focuses on household hazardous waste (HHW): what makes waste hazardous, different properties and symbols used to identify HHW, common examples of hazardous waste at home and school, where to dispose of HHW, the dangers of HHW products, safe disposal and unsafe disposal, environmental effects, and how some HHW is recycled. The lesson is concluded with tips on how to reduce hazardous waste usage and how one can help stay safe with hazardous waste at home. After the lesson, the students' knowledge will be tested and key points will be reinforced.	45
Science and Technology *Earth and Space Systems* *– Conservation of Energy and Resources*	E1.1 Analyse long-term impacts of human uses of energy and natural resources, on society and the environment, including climate change, and suggest ways to mitigate these impacts *(e.g., reusing or recycling products, or using fewer products, conserves natural resources and energy)*	In this lesson, students will learn about the lifecycle of garbage, recyclable and compostable items, as well as the positive and/or negative environmental effects of putting items in the garbage, Blue Box or Green Cart. The lesson focuses on 'closing the loop', or creating a continuous cycle where items get recycled rather than ending their life in a landfill. There will be an open discussion on how to use fewer resources at home. After the lesson, the students' knowledge will be tested and key points will be reinforced.	60

Have your lunch or snack with us!

Students are invited to bring their lunch or a snack with them to our Education Centre. They will be asked not to dispose of any of their waste. Students are strongly encouraged to bring a zero waste lunch or snack. After eating, we will sort the waste together into the three waste streams:

- garbage
- recycling
- organics



Crafts and Activities*

Craft or Activity	Description	Time *(min.)*
Suitable for Grades 1 and up		
Conduct a Waste Audit	A container full of recyclables, hazardous waste, garbage and compostable items is given to the students. They must work together in groups to correctly divert the items and see just how little we should actually be placing in the garbage.	15
Visit Worm Friends	Students will observe a real live worm composter, which is a great option for those in apartments to manage organic waste - or for anyone! The process and benefits will be explained, as well as the different set-up options.	15
Suitable for Grades 3 and up		
Redesign That Package	Students are given flyers and are asked to pick out an item that they would redesign to be more sustainable or have less packaging. This activity can be done in small groups and will develop the students' creative thinking and communication skills. Students will then present their ideas to the class.	30
Who Am I?	The students will have pictures taped to their back showing compostable, recyclable, garbage and hazardous waste items. By asking yes or no questions, they must figure out exactly what item they are.	15
Upcycled Shirt Bag	Create an easy no-sew reusable shopping bag out of an old t-shirt. Students will be asked to bring in an old t-shirt to transform (some extras will be available).	30
Upcycled Gift Bows	Create bows to put on gifts out of old packaging or papers.	30
Upcycled Bracelet or Necklace	Make a necklace or bracelet with handmade beads made out of old papers or wrappers.	30
Suitable for Grades 4 and up		
Jeopardy	The classic game with a waste diversion twist! Subjects include Green Cart, Blue Box, Plastics, Garbage and Household Hazardous Waste.	35
Waste Mad Libs	Students in small groups will be prompted to fill in some blanks in a waste-related story with adjectives, nouns, adverbs, etc. of their choice. The funny results will be shared with the group!	15
Upcycled Bookmark	Create a bookmark by folding strips of old paper or wrappers.	20

**Subject to change.*





Tours

Tour	Description	Time *(min.)*
Recycling Centre 1825 Frobisher St	Students **(grades 1+)** will see the inner workings of the Recycling Centre via video footage to start. The guide will explain how the materials are sorted so they can be sold to markets that will use them to make new products. The students will then stand outside the large open doors of the centre to see the process in action, including the mountain of recyclables that have been diverted from landfill and the finished separated product ready to be shipped to markets.	60
Sudbury Landfill 2870 Kingsway ***Not offered in winter***	By bus, students **(grades 4+)** will see the different areas of the Sudbury Landfill, including the Reuse Store, different diversion areas, the Green Cart Organics Composting Pad, the Landfill Gas Utilization Plant, the Leachate Collection Ponds, and more! This tour is done entirely by bus (to be booked/paid by the school). It is recommended to add a general presentation in the Education Centre beforehand.	75