



curriculum links

Grade 5:

- ◆ Understanding Earth and Space Systems:
Conservation of Energy and Resources



overview

In this activity, students will examine how a toilet works and learn about the differences between water efficient (or low-flow) toilets and regular-flow toilets. Students will look at the number of times that a toilet might be used in their home each day, and make comparisons to what equivalent amounts of water could be used to do in manufacturing items and completing other daily routines.

grade 5 expectations

Science and Technology

Understanding Earth and Space Systems: Conservation of Energy and Resources

Overall Expectations

- ◆ 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;
- ◆ demonstrate an understanding of the various forms and sources of energy and the ways in which energy can be transformed and conserved.

Specific Expectations

Relating Science and Technology to Society and the Environment

- ◆ 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;
- ◆ evaluate the effects of various technologies on energy consumption, and propose ways in which individuals can improve energy conservation.

Developing Investigation and Communication Skills

- ◆ use scientific inquiry/research skills to investigate issues related to energy and resource conservation;
- ◆ use appropriate science and technology vocabulary, including, *energy, heat, light, sound, electrical, mechanical* and *chemical*, in oral communication;



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- ◆ *Understanding Basic Concepts*
- ◆ identify a variety of forms of energy, and give examples from everyday life of how that energy is used;
- ◆ identify renewable and non-renewable sources of energy.

key terms

Conservation - The act of using the resources only when, needed for the purpose of protecting from waste or loss of resources.

Recycle - To use something again

Reduce - To make smaller, decrease

