

## Kinark Outdoor Centre EcoClassroom

### **Grade 5 EcoSchool Program** **“BIG ENERGY IDEAS”**



The Kinark Outdoor Centre is excited to partner with Out to Learn, an ecological and natural resource education company, for a new series of EcoSchool programs! We offer a full day program on energy conservation to grade 5 classes during 2008/09 school year .

Through this program students achieve the Science and Technology curriculum learning objectives for ‘Properties and Changes in Matter’ and ‘Conservation of Energy and Resources’. They explore a range of alternative energy technologies and what goes on ‘behind the meter’. This hands on program is coupled with games about energy and resource conservation providing for a unique and experiential environmental education experience. Each activity is specifically linked to the Ontario Curriculum, exploring the fundamental concepts of Energy Sustainability and Stewardship.

To book a class or to receive more information contact the Director of the Kinark Outdoor Centre, Jim McHardy at (705) 286-3555



Kinark Outdoor Centre  
1766 Queens Line  
Minden, Ont.  
K0M 2K0  
705-286-3555  
www.koc.on.ca

[www.sustainablebuilding2006.ca](http://www.sustainablebuilding2006.ca)



**Out to Learn**  
Ecological and Natural Resource Education



## Grade 5: Understanding Matter and Energy, Energy Conservation

A full day program includes hands on activities that explore the energy and waste choices we have as consumers and how these choices impact the world.

### **UNDERSTANDING MATTER AND ENERGY: PROPERTIES OF AND CHANGES IN MATTER**

**1** evaluate the social and environmental impacts of processes used to make everyday products

**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 impact of using processes that rely on chemical changes to produce consumer products, taking different perspectives into account (*e.g., the perspectives of food manufacturers, consumers, landfill operators, people concerned about the environment*), 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** 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

**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 (*e.g., turning off the faucet while brushing teeth or washing and rinsing dishes conserves water; reusing or recycling products, or using fewer products, conserves natural resources and energy*)

**1.2** evaluate the effects of various technologies on energy consumption (*e.g., improving our home's insulation allows us to conserve heat and reduce energy consumption; aerodynamic design can improve the energy efficiency of cars and buses; household appliances designed to make our lives easier use large amounts of energy; some cars and recreational vehicles use energy less efficiently than others*)

**ONTARIO ECOSCHOOLS**    <http://www.yorku.ca/ecoschl/index.asp>



Ontario EcoSchools is an environmental education program that addresses both how the schools are run and what students learn. It has been designed collaboratively by school boards for school boards to incorporate environmental education as well as environmentally responsible action into the school setting. Student success in both academics and positive contributions to society is the focus of Ontario EcoSchools. The program aims to influence young people during a formative period of life, and affect an exponential impact as children take a culture of conservation home with them.



**Out to Learn**  
Ecological and Natural Resource Education