

## **Plan: How can I help prepare students and myself for a great day of learning?**

The **Conservation of Energy** program is designed to enrich student understanding of Eco Literacy\* by bringing the Grade 5 Science Curriculum to life through a hands-on, learning experience at Forest Valley Outdoor Education Centre.

\*Understanding how to support sustainable interactions between human and natural systems

### **Curriculum Connections:**

- [Science and Technology 1-8, Understanding Earth and Space Systems, Conservation of Energy and Resources \(p 107-109\)](#)

### **Some guiding questions to support effective field trip planning:**

- Why did you choose our **Conservation of Energy** Program?
- How does it integrate into your classroom program?
  - Is the field trip going to act as a “minds on” engagement where students formulate questions for inquiry?
  - Is the field trip an opportunity for students to gather evidence for an inquiry already in progress?
  - Is the field trip a culminating experience for students to apply their learning?

### **Possible Pre-Trip Experiences:**

- begin a Know, Wonder, Learn (KWL) chart about conservation of energy to bring with you to Forest Valley
- take a school community walk to collect data about energy sources and sort data into renewable and non-renewable energy (e.g. trees use solar energy -renewable, cars use gas –non-renewable)
- use [Eco Schools Certification Toolkit](#) to conduct an energy audit of your class and/or school (For more ideas consult [Eco Schools Best Practices](#): Energy Conservation)
- begin researching where our waste goes and how much energy is actually needed to “throw something away”
- use [EcoSchools Certification Toolkit](#) to conduct a waste audit in your classroom (For more ideas consult [Eco Schools Best Practices](#): Waste Minimization)
- graph and track the results of your energy and waste audits on a class bulletin board
- review different forms of energy, how energy is stored and how it is transformed

### **TDSB Web Resources** (note, these may only be accessible through a TDSB computer):

- [MediaNet](#) (Library & Learning Resources: Grade 5 Earth and Space Systems)
- [TDSB's Virtual Library](#)