

APPENDICES

Appendix A:

Additional Resources and Opportunities as of March 2013

I. SD57 District Learning Commons Resources

The following is a list of relevant resources found at the local District Learning Commons.

DVD/Audiovisual

- a) *BC Lung's Making a Difference: Air Quality and Your Health* 4 Chapters, less than 8 minutes per chapter.

- b) *Addicted to plastic* 85 minute DVD
Call Number DVD 668.4 ADD
This challenging video explores the widespread use of plastic in modern society and the issue of it ending up in the landfill and the ocean. It presents some creative ways in which various companies are reusing plastic for other purposes, such as railway ties.
Target audience grades 6-12.

- c) *Ontario ecology: it is easy being green.* 25 minute DVD
Call Number DVD 917.13 ONT
Produced by Canadian Geographic Kids this video presents some examples from Central Canada of positive green energy including the way in which cold water from Lake Ontario is being pumped into the city of Toronto to help cool some of the downtown skyscraper buildings.
Target audience grades 3-7.

- d) *Environmental health.* 23 minute DVD
Call Number DVD 363.7 ENV

- e) *Transportation: traffic, fuel consumption and air pollution.* 24 minute DVD
Call Number DVD 363.7392 TRA
Bill Nye discusses emissions sourced from transportation and introduces some of the new technologies designed to reduce contribution to air pollution from transportation. This film is created from an American car culture.
Target audience grades 5-8.

- f) *Air quality*. 23 minute DVD
Call Number DVD 363.7392 AIR
This is an information rich video exploring key components of current air quality issues. Although it presents from a US angle, it has parallels to the Canadian context including our monitoring tools. Temperature inversions, Air Quality Index, technology to cut on pollution, primary and secondary sources of air pollution indoor burning, carbon monoxide and radon are all addressed in this short but effective video. Target audience grades 5-12.
- g) *Sustainability in the 21st Century*. 23 minute DVD
Call Number DVD 363.7 SUS
Produced by Schlessinger Media this short video explores sustainable development, conservation of natural resources, and sustainable agriculture. Target audience grades 5-12.

Professional Resource

- a) *Teaching Green: The Middle Years: Hands-on Learning in Grades 6-8*. Edited by Tim Grant and Gail Littlejohn. (PROF 372.357 TEA)
- b) *Teaching Green: The High School Years: Hands-on Learning in Grades 9-12*. Edited by Tim Grant and Gail Littlejohn. (PROF 333.7071 TEA)
- c) *Smart by Nature: Schooling for Sustainability*. Michael K. Stone. Center for Ecoliteracy. (Found in Learning Kit, *Sustainability Education: Air Quality and the Healthy Lung*).
This book “offers inspiration by documenting the accomplishments of many schools [and] shares the lessons they have learned.”
- d) *EcoLiterate: How Educators are Cultivating Emotional, Social and Ecological Intelligence*. Goldman, D., Bennett, L. and Barlow Z. Center for Ecoliteracy. (Found in Learning Kit, *Sustainability Education: Air Quality and the Healthy Lung*).

Learning Kit

- a) *Sustainability Education: Air Quality and the Healthy Lung Suitability: Grades 2-12*

Components of the kit:

- i. *Sustainability in the Classroom: Air Quality and Health Resource Package for Educators in Prince George, BC*
- ii. Model of lungs (visual for healthy, cancerous, COPD and asthmatic lungs)
- iii. *Ecoliterate: How Educators are Cultivating Emotional, Social and Ecological Intelligence*
- iv. *Smart by Nature: Schooling for Sustainability*
- v. Air Quality and Health Index Poster
- vi. Air Quality and Health Index Wheels
- vii. Respiratory System Posters
- viii. Asthma Society of Canada Youth Asthma Basics Booklets (Diagnosis, Triggers, Medications and Kids)

II. BC Air Quality Website

<http://www.bcairquality.com>

Access to hourly updates from actual monitoring stations across the province. Follow the link to “What is the Air Like Today?” to access your current location. Monitoring stations will have current air quality readings for various pollutants as well as the current meteorological readings.

III. BC Green Games

British Columbia’s Science World puts on an annual contest of environmental action for BC schools. Teams are encouraged to act upon an environmental challenge in their school or community and document it in a way it can be creatively shared. Winning teams will receive \$1,000.

<http://www.bcgreengames.ca/home.html>

IV. Canadian Lung Association

http://www.lung.ca/home-accueil_e.php

The Canadian Lung Association provides information to teachers, students and parents regarding respiratory health. Resources designed for various age levels and include interactive activities.

V. Center for Ecoliteracy

<http://www.ecoliteracy.org>

VI. Clean Air Champions



Athletes Inspiring Action for the Environment

Clean Air Champions is a national charity committed to educating Canadians, particularly youth, on the interconnections between environmental and health issues and offers free curriculum-connected programs to schools and communities across Canada. www.cleanairchampions.ca

Opportunities:

- A. **Host a champion athlete** at your school to inspire youth. Their Clean Air Champions are committed and passionate about spreading the word to help reduce air pollution and climate change, and promote more active, sustainable lifestyles.
- B. Check out their **High School Climate Change Challenge**
- C. **Air Aware Program**, curriculum linked lesson plans with teacher guide. Some of these activities have been customized and found in the “Lesson plans for teaching air quality” section of this resource package.

VII. Clean Air Kids

Information sheets and games or activities that can be used by teachers and students for ages 5 to 11. <http://www.clean-air-kids.org.uk/index.html>

VIII. EarthCARE Canada



“Involvement of students, school staff and senior staff is facilitated through a partnership model that focuses efforts and generates returns. Students are the drivers of the initiatives; their ideas and enthusiasm are embraced.”

http://www.earthcarecanada.com/EarthCARE_Program/EarthCARE_lessons.asp#Lessons

IX. Green Learning/The Pembina Foundation

Register today to gain free access to teaching resources. Lesson plans in the EnerAction unit helps educators bring energy conservation and efficiency projects to middle school students, grades 4 to 7. Fourteen lesson plans spanning over various subjects including, science, social studies, language arts, fine arts and math can offer comprehensive teaching materials to

address energy sustainability in the classroom.

<http://www.greenlearning.ca/eneraction>

Let your students get creative with the eCard system offered by Green Learning. An eCard is an electronic card about *energy* that you research, write, design and send using eCards. The title, text and image of your eCard form a powerful message that you can deliver to a family member, friend or a politician.

<http://ecards.greenlearning.ca>

X. The Green Squad

A project of the Natural Resource Defense Council, out of the United States, this program can help guide kids in how they can make their school a healthier place for both them and the environment.

http://www.nrdc.org/greensquad/intro/intro_1.asp

XI. *Indoor Air Quality IAQ Tools for Schools Action Kit*

<http://www.epa.gov/iaq/schooldesign/index.html>

XII. Northern Health Authority

The Northern Health Authority provides regionally appropriate information on the issue of Air Quality under their Environmental Health page. See link below:

<http://www.northernhealth.ca/YourHealth/EnvironmentalHealth/AirQuality.aspx>

XIII. The Prince George Public Library

The Prince George Public Library has numerous resources available to the general public. Simply explore the catalogue through a key word search online or at the library in person.

XIV. World Wildlife Fund Green Community School Grants Program

“The grant program aims to support school projects that will connect students with nature, help reduce a community’s impact on the environment, increase understanding of environmental issues and solutions, stimulate environmental leadership, and inspire students and communities to take action.”

<http://c.studentawards.com/greencommunityprogram/>

Your school could be awarded up to \$5,000 to implement their green project.