

Web Resources for Science Teachers

Revised (all sites checked) September 2008

Key Curriculum Documents and Related Information

Type	Description	Web link
Grades 1-8 Science & Technology, 2007 NEW	Curriculum Documents, exemplars etc.	http://www.edu.gov.on.ca/eng/curriculum/elementary/scientec.html
Locally Developed, SNC 1L and 2L	Subject Document, Course Profiles; includes sample lessons and timelines	http://www.curriculum.org/csc/library/ldcc/index.shtml#professional
Grades 9 & 10, Science, 1999	Curriculum Documents, exemplars etc.	http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html
Grades 9-12, Science, DRAFT 2006	DRAFT Documents Final documents expected in fall 2008	Link now closed; refer to First Class, Science Conference, subject folders (First Class - conferences - programs – student success – secondary – science)
Grades 11 & 12, Science, 2000	Curriculum Documents, exemplars etc.	http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html
Think Literacy	Science 9-10 oral, writing, reading 2005; Sci-Tech 7-8, 9P 2004;	http://www.edu.gov.on.ca/eng/studentsuccess/thinkliteracy/library.html
EOCCC	Eastern Ontario Catholic Curriculum Co-operative	http://www.eoccc.org/
Ontario Universities	University pre-requisites for fall 2008	http://www.electronicinfo.ca/en/page.php?id=12
Ontario Educational Resource Bank	Learning objects, tutorials, content pages, assignments etc.	http://resources.elearningontario.ca teacher login: username -> OCCDSBteacher password -> oerbt student login: username -> OCCDSBstudent password -> oerbs
Explore Learning NEW	Gizmos – interactive science simulations; licensed for free use by all grade 9-12 science teachers	http://www.explorelearning.com/ login and password available from Science Department Heads
The Virtual Lab NEW	Online resource for eastern Ontario educators teaching math & science, gr 7-12, by Queen's University	www.thevirtuallab.org

Association and Related Sites

Type	Host	Description	Web Link
STAO	Science Teachers Association of Ontario	Site with links to Virtual Library, Science Store, Conference info, articles etc.	https://stao.ca/
STAO Virt Library	As above	Teacher share space, organized by grade and course, sample lessons, projects, activities etc.	http://virtuallibrary.stao.ca/
Gov't of Canada	National Research Council	Student and teacher space with information relevant to grades 1-12 science;	http://www.nrc-cnrc.gc.ca/education/main_e.html
Gov't of Canada	National Research Council	'A Day in the Life' of different researchers Planisphere (interactive sky chart), weekly stargazing articles; Interactive Periodic table	www.nrc-cnrc.gc.ca/student-science-tech
Gov't of Canada	Science & technology for Canadians	Science news, weekly features, fast facts, careers info., Canadian scientist achievements, educational resources sections with lesson plans	www.science.gc.ca
OSAPAC	Ontario Software Acquisition	Software licensed for free use by teachers and students in Ontario	http://www.osapac.org/bb.asp
NSTA	National Science Teachers Association	American-National group with wealth of information, articles etc. of interest to all science teachers.	http://www.nsta.org/
National Science Digital Library	National Science Foundation (NSF)	Images, video, audio, animation, software, datasets, journal articles, lesson plans; all services and resources have been vetted for accuracy and educational appropriateness	www.NSDL.org
NAS	National Academy of Science (NAS)	Advisory group on Science, Engineering and Medicine	http://www.nas.edu/
	The University of Sheffield	Interactive periodic table	www.webelements.com/
Live Safe! Work Smart!	Ontario Ministry of Labour	For teachers – sample lessons and quizzes relating to safety in science (K-12)	http://www.livesafeworksmart.net/english/index.htm
Sci-Tech Ontario		Site filled with project ideas, science fair support etc.	http://www.scitechontario.org/index.php?lang=en
SEEDS	Environment, Energy & education	Site with Energy Literacy, Climate Change, teaching activities etc.	www.seedsfoundation.ca
Science News for Kids	Non-profit american company	News stories appealing to students, organized by topic, many with question sheets and word puzzles to follow	http://www.sciencenewsforkids.org/
Internet for Classrooms		Virtual field trips, SMART boards, on line labs, java applets, theory	http://www.internet4classrooms.com/k12links.htm

Commercial and Catalogue Sites:

Company	Description	Site
Boreal-Northwest	On-line catalogue	http://boreal.com/Default.asp
Spectrum-Nasco	On-line catalogue	http://www.spectrumed.com/viewer/?id=8&p=1&zl=2
Fisher Scientific	On-line catalogue	http://www.fishersci.ca/
Starry Night	Lesson plans and planetarium software package	http://starrynight.com/education
Merlan	Software, probes, science equipment etc.	http://www.merlan.ca/default.aspx
Vernier	Data collection devices for science	http://www.vernier.com/
Pasco	Software, probes, science equipment etc.	http://www.pasco.com/
Palcik	Canadian science supply company	http://www.palcikeducational.com/

Sites for Teacher Use – many include free lessons, resources and other related materials

Name	Description	Site
Safe Drinking Water Foundation	Free water test kits for elementary & secondary schools (go to Ed Programs, Operation Water Drop, Green Street); information about drinking water, issues with native drinking water etc.	www.safewater.org
Global Warming 101	Expedition to Baffin Island to study climate change effects in the Arctic; free lesson plans, maps and other resources for K-5, and 6-12 educators	www.globalwarming101.com/
Canadian Teacher web site	Site with collection of free resources for Canadian educators – relevant topics in ecovoyageurs – footprints etc., Canadian energy info.	www.4edu.ca/tors/toppicks.html
UK site for Math & Science Teachers	Many on-line features for science students	http://lgfl.skool.co.uk/
EcoSchools	Environmental education resources for Ontario schools (by Ontario Schools)	http://www.yorku.ca/ecoschl/index.asp

Contests & Enrichment Opportunities

Ottawa Regional Science Fair	Regional science fair for gr 7-12 students. Each school can send 10 students per division (7/8, 9/10, 11/12);	http://www.orsf.ca/main.php
Youth Science Foundation Canada	Student volunteers who want to mentor school students to assist them with contests and fairs	http://www.yzf.ca/SMARTS/
Sanofi –Aventis Biotech Challenge	For high school students interested in biotechnology	http://www.nrc-cnrc.gc.ca/education/programs/aventis/t-aventis_e.html
Canadian National Marsville	For grades 6-8; starts again January 2009	http://www.nrc-cnrc.gc.ca/eng/education/marsville/index.html
National Engineering Challenge	Match up with volunteer engineers	http://www.nrc-cnrc.gc.ca/education/programs/challenge/t-newchallenge_e.html
U of Waterloo	Avogadro & Chem 12 Order by mid April, contests in May	http://www.chemistry.uwaterloo.ca/about/outreach/exams/index.html
U of Toronto	National Biology Competition Contest in April	http://biocomp.utoronto.ca/
Sci-Tech Contests	Science Fair + mentors	http://www.scitechontario.org/index.php?lang=en
Ontario Genomics Institute	Teaching Prize	www.ontariogenomics.ca
Deep river Science Academy	6 week summer camp	www.drsa.ca
Shad Valley	4 week summer camp	www.shad.ca
Ontario Science Centre School	1 semester of gr 12 on site; open to students from all over Ontario	www.ontariosciencecentre.ca
Pathmakers	Links with Carleton U to support more girls in science, engineering and technology	http://www.pathmakers.ca/
	Canadian Ass'n 4 Girls in Science	http://www.cagis.ca/