



YouTube: Meet the Elements; Big bang briefly

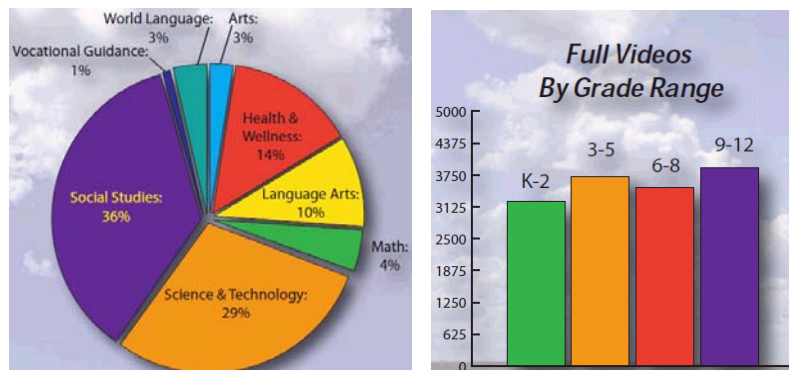
TeacherTube: [www.teachertube.com](http://www.teachertube.com)

Streaming Video: Thirst ... in QCAT. For the website see: <http://www.pbs.org/pov/thirst/>

NFB: <http://www.nfb.ca/> 1,000 video-streamed resources

Annenberg Video: [www.learner.org](http://www.learner.org)

Learn360: [www.learn360.com](http://www.learn360.com) – will be in all Ontario schools this fall



Go to <http://learn360.ca> and select the **NEW USERS** tab (top right corner):

Enter your Queen's Education Library passkey: see your librarian

Each Queen's teacher candidate can then create their own account, playlists, etc

## Textbooks

Select QCAT >> Advanced Search; choose Education Library – Textbooks

Search for: science 10

Approved Ontario textbooks: <http://www.edu.gov.on.ca/trilliumlist/>

ONScience 9 and 10 has online Instructor Edition with blackline masters, e-text, image bank, answer keys. Online videos for grades 9 and 10 units: <http://www.nelson.com/onsciencepd/>

Investigating Science series 7-10 (Pearson): has online ScienceSource.ca for links, activities, image bank, quizzes, videos, podcasts (CBC Quirks and Quarks); teacher corner; lab activities; literacy info.

Nelson online videos for grades 9 and 10 units: <http://www.nelson.com/onsciencepd/>

New Textbooks: Pearson investigating Science 9 and 10:

- Differentiated instruction
- Numeracy and Literacy (OSSLT) support
- Jay Ingram's "Cool Ideas" that bring science to life
- [ScienceSource.ca](http://www.sciencesource.ca) – the next generation in instructional technology
- Classroom-tested, manageable and affordable labs and inquiry activities
- Units on Optics and Climate Change
- A consistent approach across grades 7-10
- Investigation skills and assessment support to support the new curriculum

**Passwords**

ON Science 9 online teacher resources  
 1. <http://www.mcgrawhill.ca/books/onscience9>  
 2. Follow the link to the enhanced site.  
 3. Click on Instructor Edition.  
 4. When prompted for an email and its password see your librarian

ON Science 10 online teacher resources  
 1. <http://www.mcgrawhill.ca/books/onscience10>  
 2. Follow the link to the enhanced site.  
 3. Click on Instructor Edition.  
 4. When prompted for an email and its password see your librarian

Science Links 9 online teacher resources  
 1. <http://www.mcgrawhill.ca/books/sciencelinks9>  
 2. Follow the link to the enhanced site.  
 3. Click on Instructor Edition.  
 4. When prompted for an email and its password see your librarian

Science Links 10 online teacher resources  
 1. <http://www.mcgrawhill.ca/books/sciencelinks10>  
 2. Follow the link to the enhanced site.  
 3. Click on Instructor Edition.  
 4. When prompted for an email and its password see your librarian

<b>K-12 Non-Fiction/ Fiction</b>	<p>Add <b>juvenile</b> for K-12 reading materials: scien? and juvenile</p> <table border="1" data-bbox="302 762 1466 909"> <tr> <td data-bbox="302 762 824 909">           Genes and DNA: QH437.6 W34            Lorax: PS3513 E2 L67            The science of Jurassic Park: QH442 D47            What Darwin saw: QH31 D2 2009         </td> <td data-bbox="829 762 1466 909">           How we know what we know about our changing climate: QC981.8.C5 C475 2008            Science : 100 scientists who changed the world: Q125 .B377 2003         </td> </tr> </table> <p>Clan Apis: PN6727.H768 C52 2000t A -biography of a honeybee named Nyuki, this graphic novel creatively combines scientific detail and in-depth illustrations, describing the life cycle and natural environment of the honeybee.</p>	Genes and DNA: QH437.6 W34 Lorax: PS3513 E2 L67 The science of Jurassic Park: QH442 D47 What Darwin saw: QH31 D2 2009	How we know what we know about our changing climate: QC981.8.C5 C475 2008 Science : 100 scientists who changed the world: Q125 .B377 2003
Genes and DNA: QH437.6 W34 Lorax: PS3513 E2 L67 The science of Jurassic Park: QH442 D47 What Darwin saw: QH31 D2 2009	How we know what we know about our changing climate: QC981.8.C5 C475 2008 Science : 100 scientists who changed the world: Q125 .B377 2003		
<b>Ministry of Education documents</b>	<p>Curriculum Services Canada: <a href="http://www.curriculum.org/">http://www.curriculum.org/</a>          curriculum Ontario science "course profile?" biology          Ontario curriculum, Grades 9-12. Environmental education          Ready set green: <a href="http://www.edu.gov.on.ca/eng/document/policy/readySetGreen.pdf">http://www.edu.gov.on.ca/eng/document/policy/readySetGreen.pdf</a></p>		
<b>Lessons and Learning Objects</b>	<p>WebQuests: <a href="http://www.webquest.org/">http://www.webquest.org/</a> (Mystery of Joe's Father-- Biome Zoo)  <b>Thinkfinity:</b> <a href="http://www.thinkfinity.org/">http://www.thinkfinity.org/</a>          Dynamic Periodic table: <a href="http://www.ptable.com/">http://www.ptable.com/</a>          Human physiology animations:  <a href="http://www.conncoll.edu/academics/departments/biology/humanphysanims/">http://www.conncoll.edu/academics/departments/biology/humanphysanims/</a>          Hands-on Activities for Teaching Biology to High School or Middle School Students:  <a href="http://serendip.brynmawr.edu/sci_edu/waldron/">http://serendip.brynmawr.edu/sci_edu/waldron/</a>          Engage to Learn: <a href="http://engagetolearn.com/">http://engagetolearn.com/</a> Offers case studies and webquests.</p>		

<p><b>Websites</b></p>	<p>TED (Technology, Entertainment, Design) Talks: <a href="http://www.ted.com/themes">http://www.ted.com/themes</a></p> <p>Tree of Life: <a href="http://tolweb.org/tree/">http://tolweb.org/tree/</a> See images and movies.  Encyclopedia of life: <a href="http://www.eol.org/">http://www.eol.org/</a> red maple</p> <p>World News -- see WN Science: <a href="http://www.wn.com/">http://www.wn.com/</a>  Scitable: <a href="http://www.nature.com/scitable/topics">www.nature.com/scitable/topics</a> See Essentials of Genetics</p> <p>PBS Teachers: <a href="http://www.pbs.org/teachers/sciencetech/">http://www.pbs.org/teachers/sciencetech/</a>  Bitesize – Science: Biology: <a href="http://www.bbc.co.uk/schools/ks3bitesize/science/biology/index.shtml">http://www.bbc.co.uk/schools/ks3bitesize/science/biology/index.shtml</a></p> <p>Health Canada: <a href="http://www.hc-sc.gc.ca/ahc-asc/index_e.html">http://www.hc-sc.gc.ca/ahc-asc/index_e.html</a>  Human Anatomy Online: <a href="http://www.innerbody.com/html/body.html">http://www.innerbody.com/html/body.html</a></p> <p>Science Net Link: <a href="http://www.sciencenetlinks.com/">http://www.sciencenetlinks.com/</a>  CBC Digital Archives <a href="http://archives.cbc.ca/">http://archives.cbc.ca/</a></p> <p>The Biology Corner: <a href="http://www.biologycorner.com/">http://www.biologycorner.com/</a>  BioEd Online: <a href="http://www.bioedonline.org/resources/index.cfm">http://www.bioedonline.org/resources/index.cfm</a></p> <p>zeroBio: <a href="http://www.execulink.com/~ekimmel/index.htm">http://www.execulink.com/~ekimmel/index.htm</a>  Busy Teacher’s Website K-12 Biology: <a href="http://www.ceismc.gatech.edu/busyt/bio.shtml">http://www.ceismc.gatech.edu/busyt/bio.shtml</a></p> <p>Understanding Evolution: <a href="http://evolution.berkeley.edu/evolibrary/home.php">http://evolution.berkeley.edu/evolibrary/home.php</a>  David Suzuki’s website: <a href="http://www.davidsuzuki.org/kids/teachers/classroom.html">http://www.davidsuzuki.org/kids/teachers/classroom.html</a></p>
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<p><b>Web Searching Tips</b></p>	<p><b>Add level:</b> secondary elementary; possibly include subject – physics, music</p> <p><b>Add type:</b> Include type of material. E.g. “toxic chemicals” database; fish “acid rain” research; “canterbury tales” analysis; activities; lesson plans; strategies; games</p> <p><b>Restrict key words:</b> intitle: “genetically modified foods” + Canada  allintitle: every word should be present ;  “global warming” site:.edu</p>	<p><b>Add more operators:</b>  Quotation marks for phrases</p> <p>Plus/minus sign to require that term is present or not: +lesson –site:.com</p> <p>OR in capitals for synonyms:  “middle ages” OR medieval ;  Globalization OR globalisation</p> <p><b>Remove commercial sites:</b> -site:.com</p>
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intitle:genetics lesson high school

About 1,240 results (0.07 seconds)

[Genetics Lesson Plans: Mendel, Meiosis, DNA RNA Protein Synt](#)  
Genetics lesson plans designed for high school, middle school, and elementary science teachers are downloadable here. Lesson Plans Inc. offers many ...  
[www.lessonplansinc.com/biology\\_lesson\\_plans\\_genetics\\_dna\\_and\\_rna.php](http://www.lessonplansinc.com/biology_lesson_plans_genetics_dna_and_rna.php) - (

[Genetics Education Center](#) ☆  
Resources on the human genome project, curricula, lesson plans, books, ... Fe  
School Human Genome Program, Genetics Education Partnership, Univ. ...  
[www.kumc.edu/gec/](http://www.kumc.edu/gec/) - Cached - Similar

[Genetics - Lesson Plan Library](#) ☆  
The Lesson Plan Library offers high school lesson plans covering all major ... t  
principles of genetics suitable for a high school biology class. ...  
[school.discoveryeducation.com/lessonplans/.../genetics/](http://school.discoveryeducation.com/lessonplans/.../genetics/) - Cached - Similar

<p><b>Current Periodicals</b> 2010</p>	<p><i>American Biology Teacher</i> <i>The classroom astronomer</i> <i>Studies in science education</i> <i>School science and mathematics</i> <i>Science activities: classroom projects &amp; curriculum ideas</i> <i>School science and mathematics</i> <i>Journal of biological education</i> <i>Journal of environmental education</i></p>	<p><i>Science teacher</i> <b>Crucible – online only</b> <i>Popular science</i> <i>Chem13 news</i> <i>Chemical education</i> <i>Physics teacher</i> <i>Green teacher</i></p>
<p><b>Professional Associations</b></p>	<p>Science Teacher’s Association of Ontario: <a href="http://www.stao.ca/">http://www.stao.ca/</a> The members only materials can be accessed with: <a href="mailto:library.serials2@queensu.ca">library.serials2@queensu.ca</a>; pw: "crucible" National Science Teachers Association: <a href="http://www.nsta.org/">http://www.nsta.org/</a> National Association of Biology Teachers: <a href="http://www.nabt.org/">http://www.nabt.org/</a></p>	
<p><b>Journal Articles</b></p>	<p>Start with Summon: teaching biology secondary Use filters to narrow.</p>  <p>OR</p> <p>Click on Databases and try:</p> <p>Education Research Complete: 1,730 journals with full text for more than 800 journals, 67 books, and conference papers.</p> <p>ERIC: Education Resources Information Center (1966-) Largest education database in the world. Sponsored by the U.S. Department of Education. Two separate indexes: Current Index to Journals in Education (CIJE) and Resources in Education (RIE). CIJE has 900 journals. RIE indexes unpublished resources such as conference papers and exemplary curriculum resources. <b>The ERIC thesaurus is the best place to find lists of broader and narrower terms that can be applied in any database.</b></p> <p>Canadian Education: Articles from 150 Canadian education journals and education-related articles from 600 journals and daily news sources. From 1993 on, includes full-text of selected journal articles.</p>	

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**Google Scholar:** <http://scholar.google.ca>

Has the advantage of citation tracking. You must apply operators. To limit the number of hits, apply quotation marks for phrases and use the intitle: feature to limit keywords to the title of the item.

PEEL: Project for Enhancing Effective Learning

PEEL helps teachers focus not on the familiar topic of what they teach but on HOW they teach and the quality of their students' learning. Gives teaching ideas, common student problems, and key principles for good teaching.

Eisenhower National Clearinghouse for Mathematics and Science lesson database:  
<http://www.goenc.com/>

Examples of a search strategy in Education Research Complete to locate lesson resources for genetics.

Searching: **Education Research Complete** | Choose Databases »

<input type="text" value="biology"/>	in	<input type="text" value="Select a Field (optional)"/>
<input type="button" value="AND"/> ▼		<input type="text" value="teaching"/>
	in	<input type="text" value="Select a Field (optional)"/>
<input type="button" value="AND"/> ▼		<input type="text" value="secondary"/>
	in	<input type="text" value="Select a Field (optional)"/>
<input type="button" value="AND"/> ▼		<input type="text" value="genetics"/>
	in	<input type="text" value="Select a Field (optional)"/>