

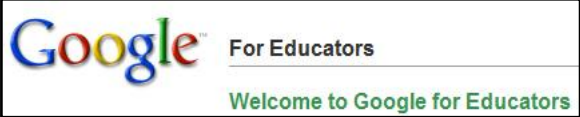


Resources for PJ Lesson Planning in Math @ Queen's U Education Library

Find books: <http://qcat.library.queensu.ca> → QCAT tab → Full Catalogue

Find Articles: <http://library.queensu.ca> → Under Research by Subject → Education → Recommended Databases

This guide uses the theme of FRACTIONS for the Grade 4 Math curriculum as a model.

Teacher Candidate Passwords: <http://educ.queensu.ca> Log in to D2L: Student Resource course

Find ...	Search Tip
<p>Teacher Resources on the Web</p>	<p>Google</p>  <p>But Google smartly. Check out:</p> <ul style="list-style-type: none"> ▶ Google tips for teachers at http://www.google.com/educators/index.html ▶ Lee & Sachi LeFever's Web Search Strategies in Plain English from <i>the commoncraft</i> show on YouTube <p>Apply operators: "lesson plan" OR "curriculum unit" fractions "lesson plan" OR "curriculum unit" -.com</p> <p>Apply field limits: intitle:fractions "lesson plan" inurl:fractions "curriculum unit" site:org fractionss "curriculum unit"</p> <p>Apply grade level: fractions "lesson plan" "grade 4" -.com fractions "lesson plan" primary -.com</p> <p>Use your knowledge of where there might be valuable lesson plans. For example, try "district school board"</p> <p>Try a variety of searches: fractions "district school board" Ontario fractions "lesson plan" "district school board" "interactive whiteboard" lesson plans elementary</p> <p>Use the "search on this page" feature of your web browser to find your search terms quickly.</p>
	<p>The Invisible Web</p> <p>Search beyond the surface web to sites you know contain high-quality resources. Use your expertise as a teacher and your knowledge of the invisible web to find specialized resources.</p> <p>6 Recommended Teacher Web Sites</p>  <ul style="list-style-type: none"> ▶ <i>Illuminations</i> http://illuminations.nctm.org/ Produced by the National Council of Teachers of Mathematics (NCTM), <i>Illuminations</i> is the math component of <i>thinkfinity.org</i>, the comprehensive, highly rated collection of teacher resources across all disciplines that is sponsored by Verizon in association with U.S. teacher associations. Explore <i>Illuminations'</i> recommended math web sites and lesson plans. ▶ <i>Thinkfinity</i> http://thinkfinity.org/ <i>Thinkfinity</i> can be searched for topics that cross disciplines. For ex. Search for information on ... Fractions / Lesson Plans / Grades 3-5 

eworkshop.on.ca site : *Online Teacher Resources for Literacy and Numeracy*
<http://www.eworkshop.on.ca/edu/core.cfm> . Here you will find “a portal with free access to resources specifically crafted for Ontario educators seeking to improve their skills and knowledge”. The site includes e-learning modules with video and lesson ideas created by Ontario teachers. The



Guides to Effective Instruction are available here.

- ▶ *Marilyn Burns' Math Solutions site*
<http://www.mathsolutions.com>



From the home page top menu select Educator Tools – and then Free Classroom Lessons from the left sidebar

- ▶ *Ontario Educational Resource Bank*
<http://resources.elearningontario.ca> There are sample resources at this site, but you should obtain password information from the “E-Learning Ontario” representative in your school board. Browse by grade and subject to find Math resources. **Idsbstudent oerbs**



- ▶ *Statistics Canada Learning Resources: Mathematics*
http://www.statcan.gc.ca/kits-trousses/courses-cours/edu05_0019-eng.htm
 A variety of lessons related to graphing and data management are available here.

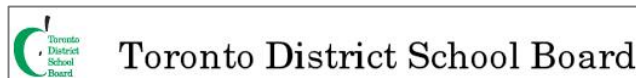
Inquiry in the School Library

The **Ontario School Library Association** supports the work of teacher librarians in Ontario. *Together for Learning: School Libraries & the Emergence of the Learning Commons.*
http://www.accessola.com/osla/bins/content_page.asp?cid=626-648

The **TDSB** shares the work of their teacher librarians: **DOWNLOAD** their guide for elementary teachers: *Imagine the Learning! A Guide for Elementary Teacher-Librarians and Teachers to Use with Students* <https://qcat.library.queensu.ca/vwebv/holdingsInfo?bibId=2496627>

TDSB Elementary School Library
<http://www.tdsb.on.ca/libraries/Links.asp?schoolNo=10>

The TDSB elementary school library template is a model set of resources for you and your students – many of which are freely available.



For your students, the Ontario government has purchased access to K-12 databases: Check out **Grzimek's Animal Life** and **NovelList K-8** at <http://eresources.knowledgeontario.ca/>

Teacher Guides For K-8 Textbooks

Floor 2

Textbook teacher guides are a superb source of ideas, activities, and related resources. Head to these resources first to save yourself time.

You don't need QCat (the library catalogue) to find these teacher guides because they are all shelved in the **QA 135.6 section in the New Textbook Collection on Floor 2.**

QA135.6 = Elementary Math Resources in all our collections and in all academic libraries

For titles of approved Ontario textbooks go to the Trillium List at <http://www.edu.gov.on.ca/trilliumlist/>

Books For Math Teachers

Floor 3

Math teaching (Primary & Elementary):

QA 135.6

to

QA 145

- ▶ Start: Library Home page: <http://library.queensu.ca>
- ▶ Click the **QCAT** tab.
- ▶ Click **Full Catalogue**. Limit to **Education Library**.
- ▶ Use ? to expand words; use " " around phrases; use (term or term) for synonyms
- ▶ To find teaching ideas on a topic, do a Keyword Boolean search (use and / or):



For example:

(fraction? or half or quarter?) and (teach? or lesson? or activit?) and (primary or elementary)

Keyword Searches (and is the default)

math? "children's literature"
"classroom management" elementary
strateg? teach? math?
Math? "grade 4"

Keyword Boolean Searches (using and/or)

Math? and ("children's literature" or reading)
math? and (fiction or literature)
pattern? and (activit? or lesson? or teach?)
and elementary

Recent notable titles:

Mathematics for Elementary School Teachers. QA135.6 .M38 2012
*Developing Essential Understanding of Addition and Subtraction for Teaching...*QA135.6.D486 2011
Hands-on Mathematics (Grades 1 to 3). QA135.6.L3912 to QA135.6.L3947 (2005-2007)
Teaching by Design in Elementary Math. QA135.6 .T365 2011
Once Upon a Life Science Book: 12 Interdisciplinary Activities.... LB1585.W448 2010

Search by publisher to see recent titles from the top educational publishers for K-8 education:

Search example: NCTM or "Math Solutions" -- using the Keyword Boolean type for publications by either the National Council of Teachers of Mathematics or Math Solutions (Marilyn Burns' press).

Children's & Young Adult Books

Floor 1

Search for children's literature in QCAT:

- ▶ Select **Advanced Search**
- ▶ Add your keywords, select **all/any/as a phrase**, select "Within" fields
- ▶ From Location drop-down, choose **Education Library – Children's & YA**
- ▶ Note: a keyword search will find both non-fiction and fiction [P-PZ call #s].
- ▶ For more fiction & non fiction on a theme, use **NoveList Plus, Children's Literature Comprehensive Database, or A to Zoo**. Access these via QCAT.

Or search NoveList Plus or Children's Lit Comprehensive DB

Begin at the Library Home Page <http://library.queensu.ca>
Scroll down to **Research by Subject** and select **Education**
Select **Recommended Education Databases**
Select **Children's Literature Databases**



Search **NoveList Plus**, the online teacher resource for finding children's stories on a theme. NoveList Plus can provide you with lists of titles that include a science concept in the story; all you have to do is find some of the titles in your school or local public library. **Novelist K-8** is **FREE** to everyone in Ontario: just go to: <http://eresources.knowledgeontario.ca/>

In our Education Library, remember that **PJ math non-fiction resources are shelved in the QA135.6 call number** range– whether you are in the Children's collection, the Kits, the Textbooks, or the General Stacks.

Children's stories will be in the fiction call numbers – which will begin with P, PR, PS....

Public Libraries often subscribe to Tumblebooks: See <http://www.kfpl.ca>

Track blogs you trust: One of my favorites is *Open Wide, Look Inside* – see the Math Lists <http://blog.richmond.edu/openwidelookinside/math-book-lists>

Multimedia

Floor 2

► Use the **Advanced Search in QCAT** and limit your search to **Education – Multimedia** or even the specific location. Or, do a search for the format you want.

Advanced Search

Audiobooks: This is a small collection that it is best to browse.

Big books: This, too, is a small collection that it is best to browse. For a list, do a keyword search for “big books”, or limit to Education Library – Big Books.

Kits: Limit to Education Library – Kits or add the word kit to your keyword search

Cassettes: Limit to Ed Lib Cassette/CDs cassette or search cassette? and your topic.

CDs: Limit to Ed Lib Cassette/CDs, or search compact and your topic.

Posters: Search (“study print” or poster) and your topic. (Easy to browse this collection too.)

Videos & DVDs: Search video? and your topic or dvd and your topic

Video Online:

Learn360

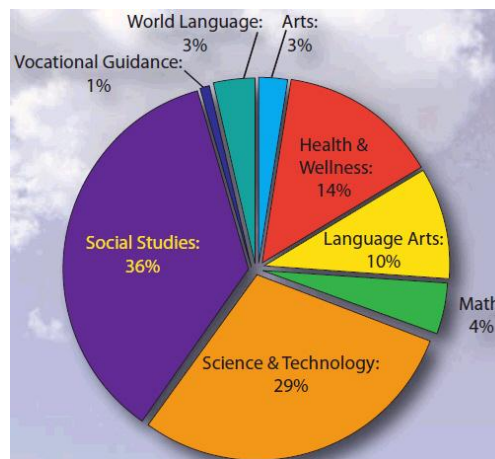
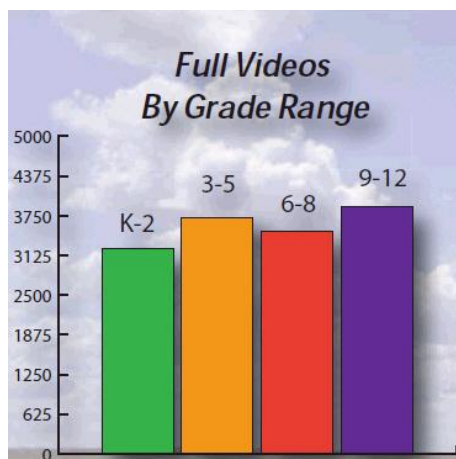
<http://learn360.ca>

A multimedia package purchased by the Ministry of Education for Ontario teachers. Classroom public performance rights are included in the deal. Contents include over 8,600 digital videos.



For YOUR PERSONAL Learn360.ca account:

1. Go to <http://learn360.ca> and select the **NEW USERS** tab (top right corner):
2. Enter the your Queen’s Education Library passkey: 13330-9268834
3. Each Queen’s teacher candidate can then create their own account, playlists, etc.

A screenshot of the Learn360.ca login page. The 'NEW USERS' tab is selected and highlighted in blue. Below the tabs are input fields for a passkey (13330) and a library ID (9268834). There is a 'SUBMIT' button and a note: 'Enter Your Pass key (Example: 12345-678910)'. A red arrow points from the 'NEW USERS' tab to the first step of the instructions.

Access Learning

<http://accesslearning.com>

3,500 online videos. Username: educationlibrary Password: library

National Film Board Videos Online

<http://nfb.ca>

Over 1000 online NFB films are free to all Canadians. Queen’s University Library has paid the classroom public performance rights for this product, so you can show these videos in classrooms.

Interactive White Board Activities

Google for high quality SMARTBoard or Interactive whiteboard lessons.
Ex.: "interactive whiteboard" lesson activity plants

The Smartexchange is one possible source of lessons: <http://exchange.smarttech.com/> (can select USA or Canada)

The OSAPAC database also features lessons for SMARTBoards created by Ontario teachers:
http://www.osapac.org/db/view_resources.php

Journals for Math Teachers

Start at <http://library.queensu.ca>
Under **Research by Subject**, click **Education** → **Recommended Education Databases**
Start with *Education Research Complete*.

Professional journals for K-8 Science teachers are not to be underestimated for their practical value. These science journals are available online and in print in our library.

Current Periodicals are shelved on the Display shelves behind the Reference Desk.

Bound periodicals are shelved on Floor 2, alphabetically by title (2009 and earlier). These may be signed out for 3 days. Renewals possible online.

Teaching Children Mathematics (for K-3 teachers)

Available in print on Floor 1 Current Periodicals section & bound on Floor 2

Mathematics Teaching in the Middle School (for junior intermediate teachers)

Available in print on Floor 1 Current Periodicals section & bound on Floor 2

Ontario Mathematics Gazette (for K-12 teachers)

Available in print on Floor 1 Current Periodicals section & bound on Floor 2

Bound journals circulate for 3 days & may be renewed.

Ministry of Education Documents

Floor 2

- ▶ Search by keyword in QCAT for curriculum guidelines & other Ministry documents:

curriculum mathematics Ontario "grades 1-8"
guide mathematics "ministry of education"

- ▶ Search by keyword in QCAT for *Guides to Effective Instruction in Mathematics*:
guide effective math?




Elementary Curriculum online: <http://www.edu.gov.on.ca/eng/curriculum/elementary/>

The Ontario Curriculum: Exemplars: Mathematics.

C.G. 700.M02 -700.M025 & online <http://www.edu.gov.on.ca/eng/curriculum/elementary/math.html>

Literacy and Numeracy Secretariat publications

In the Library and online <http://www.edu.gov.on.ca/eng/literacynumeracy/publications.html>

<p>Reference Books</p> <p>Floor 1</p>	<p>This is another easy collection to browse. Use the Call number guide found in one of the slots the brick wall near this collection. Math is always in the QA section – in all our library collections.</p>
<p>Use the Ellison Machine</p>	<p>The Ellison machine and dies are in the e-classroom, along with books and videos of ideas for using it.</p> <p>Our dies were selected with curriculum connections in mind.</p> <p>Ideas for the classroom are available on the Ellison web site at http://ellisoneducation.com</p> <p>Maple leaf die shown.</p> 
<p>Professional Associations for Math Teachers</p>	<p><i>National Council of Teachers of Mathematics (NCTM)</i> (U.S.): http://www.nctm.org/ Queen’s University Library receives the print journals from this organization.</p> <p><i>Ontario Association for Mathematics Education (OAME)</i>: http://www.oame.on.ca/ Queen’s University Library subscribes to the <i>Ontario Mathematics Gazette</i> from this group.</p> <p><i>International Society for Technology in Education (ISTE)</i> (U.S): http://www.iste.org/ Queen’s University Library membership access: 253120 and 253120</p>
<p>Software</p>	<p>Ontario Software Acquisition Program Advisory Committee http://www.osapac.org/ Browse resources at: http://www.osapac.org/db/view_resources.php Teacher Candidate Passwords: http://educ.queensu.ca Log in to D2L: Student Resource course</p> <p>Includes:</p> <ul style="list-style-type: none"> • Grolier Encyclopedia (queenuni quee2064) • Mathville Grade 1 • Learning resources including ideas for using SmartBoards