



Serving Northern
British Columbia

Mathematics

Library Subject Guide

<http://library.nlc.bc.ca>

Information literacy is a set of abilities requiring individuals to "recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information."

Association of College and Research Libraries

Mathematics is the study of the treatment of magnitude, relationships between figures and forms, and relations between quantities expressed symbolically. Northern Light College courses at the *postsecondary* level include: Calculus, PreCalculus, Linear Algebra, Finite Mathematics, and Statistics.

For **additional** Mathematics resources, view the **Adult Basic Education**, **Teaching Mathematics**, and **Statistics** subject guides.

Ask a Librarian for assistance in finding relevant books and journal articles and/or if you need help researching a course related topic. The librarian will also provide assistance in using the Library's website, online catalogue, article databases, and the Internet. Contact the librarian directly or use the "Ask a librarian" section on the Library web pages.

Dawson Creek Library
Janet Beavers, Coordinator of Library Services
Phone: (250)-782-5251 (local 1251)
Email: jbeavers@nlc.bc.ca

Fort St. John Library
Dawna Turcotte, Librarian
Phone: (250)-785-6981 (local 2012)
Email: dturcotte@nlc.bc.ca

REFERENCE

Consulting dictionaries, encyclopedias and handbooks can be a useful starting point for learning. Many of these sources provide basic information, overviews of topics, as well as introduce specialized terminology and detailed information. Major reference works are held mainly at the DC and FSJ libraries. Reference librarians on those campuses will research these materials for faculty and students. Simply fill out the "Ask the Librarian" form on the library webpage or contact the library directly. Some titles of interest located in the reference section are:

Dawson Creek Reference Collection

QA 5 F33 1999	The Facts on File dictionary of mathematics
QA 5 W45 1999	CRC concise encyclopedia of mathematics
QA 37 M315 1969	C.R.C. standard mathematical tables
Q 121 M3 1997 V. 1	McGraw-Hill encyclopedia of science & technology

Fort St. John Reference Collection

QA 93 S49 2002	The A to Z of mathematics : a basic guide
QA 37 M315 1981	CRC standard mathematical tables

LIBRARY CATALOGUE AND ELECTRONIC DATABASES

To find books, journals, and audiovisual materials on your topic, search the library's online **catalogue**. If you are looking for journal articles, search the library's online **journal article indexes & electronic databases**. Use **keywords** to search the online catalogue and/or electronic databases. A keyword is a word or term that best describes the information you are looking for. You can search the library catalogue or an electronic database for either a single keyword or a combination of keywords in order to find articles in an electronic database or books in the online catalogue containing the keyword(s).

Examples of keywords:

algebra	functions	linear regression	polynomials
calculus	integral calculus	logarithmic function	statistics
differential calculus	linear algebra	mathematics	transcendental functions
finite mathematics	linear functions	precalculus	trigonometry

PERIODICALS & NEWSPAPERS

The library currently subscribes to several periodicals and newspapers of particular interest to students:

Periodical Title.....	Library Holdings.....	Campus Library
Mathematics Magazine	1994-current	FSJ

DATABASES & INDEXES:

access: <http://nlc.bc.ca/library/articleindexes.php>

Academic Search Premier: Provides coverage for social sciences, humanities, education, computer sciences, arts and literature, medical sciences, and ethnic studies. Citations and full text available. 1984-present. Updated monthly.

AccessScience: Provides general science reference offering full text resources updated daily.

Applied Science/Technology: Indexes journals in the Applied Sciences. Citations only.

Canadian Reference Centre: ncludes leading Canadian, U.S. & U.K. periodicals full text, including: Maclean's, Beautiful British Columbia, Canadian Geographic, Scientific American, etc. Also contains full text reference books; 96,600 full text biographies and an Image Collection of 116,000 photos, maps and flags. Full text.

Ingenta: Provides over 17,000 scholarly journals in all subject areas.

MAS Ultra: Contains full text for nearly 550 magazines, 91,600 biographies, 75,000 primary source documents, and 250 reference books. 1984 - current.

Science General: Provides citations on astronomy, agriculture, biology, botany, chemistry, conservation, earth science, forestry, horticulture, mathematics, medicine, physics and zoology. 1983-present.

WEBSITES

Calculus

Calculus.org: <http://www.calculus.org/>

Calculus on the Web: <http://www.math.temple.edu/~cow/>

Finite Mathematics and Applied Calculus: <http://www.ohaganbooks.com/StudentSite/>

Homepage of e-Calculus – University of Akron: <http://www.math.uakron.edu/~dpstory/e-calculus.html>

Karl's Calculus Tutor: <http://www.karlscalculus.org/calculus.html>

Visual Calculus - <http://archives.math.utk.edu/visual.calculus/>

Finite Mathematics

Finite Mathematics and Applied Calculus: <http://www.ohaganbooks.com/StudentSite/>

General

Guide to Sources of Mathematics on the Internet - Centre for Innovation in Mathematics teaching:

<http://www.cimt.plymouth.ac.uk/resources/links/default.htm>

HMC Mathematics Online - Harvey Mudd College: <http://www.math.hmc.edu/calculus/tutorials/>

Intute – Science, Engineering and Technology: <http://www.intute.ac.uk/sciences/>

Math.com: <http://www.math.com>

Math Archives WWW Server: <http://archives.math.utk.edu/>

Mathematics - free online mathematics course materials - MIT OpenCourseware:

<http://ocw.mit.edu/OcwWeb/Mathematics/index.htm>

S.O.S. Math: <http://www.sosmath.com/>

Textbooks in Mathematics – free online: <http://users.ictp.it/~stefanov/mylist.html>

Web-based Math Resources for College Students – Langara College: <http://www.langara.bc.ca/mathstats/resource/onWeb/>

Wolfram Mathworld: <http://mathworld.wolfram.com/>

Linear Algebra

Elementary Linear Algebra: <http://www.numbertheory.org/book/>

Elements of Abstract and Linear Algebra : <http://www.math.miami.edu/~ec/book/>

Linear Algebra Toolkit: <http://www.math.odu.edu/~bogacki/lat/>