

**A Selected Guide to Math Information Sources for:
PRISM (Partnership for Reform in Science and Mathematics)
A Program for Georgia's Science and Mathematics Teachers**

Selected Reference Sources on Education in General

- Akin, M.C.(Ed.). *Encyclopedia of Educational Research* (Vols. 1-4). Call No.: Ref. LB15. E48 1992 Covers all levels of education.
- Cayton, M.K. et al. (Eds.). *Encyclopedia of American Social History* (Vols.1-3) Call No.: Ref. HN57. E58 1993 Essays on "Public Education," "Collegiate Education" etc.
- Deighton, L.C. (ed.). *The Encyclopedia of Education* (Vols. 1-10). Call No.: Ref. LB15. E47 1971 Although dated, remains a standard resource.
- Routledge Encyclopedia of Philosophy* (Vols. 1-10). Call No.: Ref. B51. R68 1998 Philosophy of education entries.
- Wiener, P. (Ed.). *Dictionary of the history of ideas: Studies of selected pivotal ideas* (Vols. 1-5). Call No.: Ref. CB5. D52 1973 Long essay on "Education."
- Yearbook of Education Law* (Annual). Call No.: Ref. 4102.5. Y41 1988 to date.

Finding Book Titles

The Zach S. Henderson Library catalog at <http://gil.georgiasouthern.edu> is the starting point for book searches. Suggested Subject heading is: *mathematics study and teaching* or *arithmetic—Study and teaching* and so on.

Selected Books from the General Collection on Pedagogy

- Arnett, R.C. (1992) *Dialogic education: Conversation about ideas and between persons*. E-book via netLibrary in GALILEO.
- Arons, A.B. *Teaching Introductory physics*. Call No.: QC30. A78 1997
- Boice, R. *First-order principles for college teachers: Ten basic ways to improve the teaching process*. Call No.: LB2331. B53 1996
- Brookfield, S.D. *Becoming a critically reflective teacher*. Call No.: LB2331. B677 1995
- Davis, B. G. *Tools for teaching*. Call No.: LB2331. D37 1993
- Halpern, D.F. *Changing college classrooms: New teaching and learning strategies for an increasingly complex world*. Call No.: LB2331. C4543 1994
- Lowman, J. *Mastering the techniques of teaching*. Call No.: LB2331. L68 1995
- Spangler, M.M. *Aristotle on teaching*. Call No.: LB85. A7 S73 1998

Selected Books from the General Collection on Critical Thinking

- Brevik, P.S. *Student learning in the information age*. Call No.: Z711.2. B755 1998
- Halpern, D.F. *Enhancing thinking skills in the sciences and mathematics*. Call No.: Q181. E633 1992 **on order**
- _____. *Sex differences in cognitive abilities*. Call No.: BF311.H295 2000
- _____. *Thought and knowledge: an introduction to critical thinking*. Call No.: BF441. H25



ERIC (Educational Resources Information Center) Databases—all versions correspond to the printed indexes of RIE (Resources in Education) and CIJE (Current Index to Journals in Education). All contain abstracts from articles and reports on topics at all levels of education. Teachers are welcome to use GALILEO in the Zach S. Henderson Library. Remote access to GALILEO is offered only to those enrolled in classes on the Georgia Southern campus or its Distance Learning affiliates.

ERIC (at Cambridge Scientific) through GALILEO

Coverage: 1962 to date; Update Frequency: Monthly; Includes the searchable *Thesaurus of ERIC Descriptors*

**** ERIC (at EBSCOhost) through GALILEO (use this first)**

Coverage: 1966 to date; Update Frequency: Quarterly; Includes the searchable *Thesaurus of ERIC Descriptors*

Also offers *The Professional Development Collection*, a specialized database for professional educators that includes **350 full-text** journals.

ERIC (at FirstSearch) through GALILEO

Coverage: 1966 to date; Update Frequency: Monthly; Includes the searchable *Thesaurus of Eric Descriptors*

ERIC Documents 1996 to present NOT part of GALILEO. (searchable via ERIC at EBSCOhost)

Via E*Subscribe the ERIC Document Reproduction Service (EDRS) offers approximately 80% of all ERIC documents (EDs) **in full text** that are indexed in the ERIC database from 1993 forward in PDF. It is searchable by topic, author, title, etc., but is most useful for its "Express Search" feature which supports searching by ED number only. The library also keeps a full set of ERIC Documents (Eds) in fiche format and printing from them is free at reader-printer stations on the 1st floor.

Other Databases containing education related articles. These are available to everyone who comes into the library. Available from remote sites for Georgia Southern students only:

Academic Search Premier in GALILEO (full-text); Research Library in GALILEO; JSTOR; Project Muse; PsycInfo and more..

Periodicals Related to Teaching the Sciences in Henderson Library

College Mathematics Journal indexed online in Research Library GALILEO edition from 1997 to date.

Call No.: PER QA11 .A1 T91 **Print** Volumes owned: v. 16-v. 29

Educational Studies in Mathematics

Call No.: PER QA11 .E35 **Print** Volumes owned: v. 4- 1971-

International Journal of Mathematical Education in Science and Technology indexed online in Academic Search Premier from January 1988 to 12 months ago

Call No.: PER QA11 .A1 I5 **Print** Volumes owned: v. 1- 1970-

Journal of Geoscience Education

Call No.: PER QA1 .M382 **Print** Volumes owned: v. 15- 1986-

Journal for Research in Mathematics

Call No.: PERQA11 .A1 J68 **Print** Volumes owned: v. 1- 1970-

Mathematics in School

Call No.: PER QD1. J93 **Print** Volumes owned: v. 6- 1929-

Mathematical Spectrum

Call No.: PER QA1.S766 **Print** Volumes owned: v. 1-34 1968/1969-2000/2001

Mathematics Teacher

Call No.: PER QA1 .N28 **Print** Volumes owned: v. 1 1908-

Report

Call No.: PER Q181 .A1 I53 **Print** Volumes owned: 1966, 1967, 1968, 1970, 1972

Web Sites

Awesome Library – Mathematics (http://www.awesomelibrary.org/Classroom/Mathematics/Middle-High_School_Math/Middle-High_School_Math.html)

Internet Stuff for Middle School Math (<http://www.gsu.edu/~mstlls/nctm97.html>)

Middle School and Elementary Mathematics (<http://wneo.org/hotlists/msandelemmath.htm>)

Middle School Math Hub (<http://middleschoolhub.org/school/math.cfm>)

Middle School Mathematics Web Sites (<http://www.itrc.ucf.edu/mssites/math.html>)

MiddleWeb Mathematics Resources (<http://www.middleweb.com/CurrMath.html>)

Multidisciplinary Web Sites Related to Teaching

Blue Web'n: A Library of Blue Ribbon Learning Sites on the Web

(<http://www.kn.pacbell.com/wired/bluewebn/>)

This site provides extensive links to lessons, activities, projects, resources, etc., in 12 curriculum areas. Electronic subscriptions to the weekly update alerts are free.

The Library of Congress Exhibitions (<http://lcweb.loc.gov/exhibits/>)

Current and archived online versions of wonderful Library of Congress displays.

PBS Online (<http://www.pbs.org/>)

This excellent educational resource will appeal to students and teachers alike. The Web site companions to PBS television programs are outstanding.

The Scout Report (<http://scout.cs.wisc.edu/>)

Newsletter of the Internet Scout Project which identifies and describes new and “newly discovered” Internet resources, and provides links to disciplinary meta-pages and other resources.

The WWW Virtual Library (<http://vlib.org/Overview.html>)

The WWW Virtual Library presently consists of hundreds of sublibraries which, in turn, consist of links to Web resources in their respective subject areas. Each library is maintained by a subject expert. Many can be used or adapted as teaching resources.

Miscellaneous Web Sites Related to Teaching

Explorations in Learning & Instruction: The Theory Into Practice Database (TIP)

Summaries of major theories related to learning and instruction. <http://tip.psychology.org/index.html>

The Critical Thinking Consortium (<http://www.criticalthinking.org/>)

Resource network of critical thinking information and materials at all grade levels.

Federal Resources for Educational Excellence (FREE) (<http://www.ed.gov/free>)

Identifies Internet resources related to teaching and learning that are available on the Web sites of many U.S. agencies.

History of Education (http://fcis.oise.utoronto.ca/~daniel_schugurensky/assignment1/index.html)

A Visit to Copyright Bay (<http://www.stfrancis.edu/cid/copyrightbay/>)

A very creative Web site that focuses on the contexts in which educators need to be informed about copyright.

Guides to Information Sources at the GSU Library

These are prepared by librarians here who are subject specialists in a variety of fields. Each one contains a mix of appropriate book titles, databases and websites. The most helpful ones for Education are:

-*How to Search ERIC*

-*How to Search Dissertation Abstracts*

-*Search Strategy: Education*

Services for educators enrolled in classes at Georgia Southern

-**Interlibrary Loan**—books or articles not available in the library may be ordered from other lending libraries for free.

-**Online Full text books** called Electronic or E-books are available in GALILEO's netLibrary from remote sites but require an initial registration (very brief) in the library.

-**Special Collections** is the GSU equivalent to a "Rare Books Room" with some interesting scientific materials. For example, there is a collection of historical newspapers on Marvin Pittman. Contact Mr. Marvin Goss at 478-1897 or e-mail him at mgoss@georgiasouthern.edu

Contacts for assistance with Science Related questions:

-Dr. Sonya S. Gaither Shepherd, Instructional Technology Librarian & Education Liaison

Telephone: 912-478-7820 or e-mail at sgaither@georgiasouthern.edu

-Electronic Reference Service called AskZach is available 24/7 for help at AskZach@georgiasouthern.edu