

General Science Teacher Resources in CCOL and Web

This handout identifies the most helpful resources for the General Science Teacher degree program, focusing on methods for teaching science.

For general education resources, see Education Resources in General the Education section of http://www.cambridgecollege.edu/library/ccol_research.cfm

Please use the Internet Explorer or Safari browsers in CCOL. Other browsers may not work properly.

Journal, document, book, and periodicals in CCOL

On the CCOL HOME page, the *Search here for Education* search box will search these databases:

- Academic Search Premier
- Wilson OmniFile Select Full Text Edition
- Education Research Complete
- ERIC
- PsycArticles
- PsycBooks
- PsycExtra
- PsycInfo
- Research Starters in Education
- SocIndex with Full Text
- Health Source Nursing/Academic Edition
- Ebrary
- CINAHL with Full Text

A search of Science as Subject AND teaching as a FIELD brought up 210 items.

Ebrary Electronic Books in CCOL

To search for science teaching books in the Ebrary Electronic Books collection:

- From the CCOL HOME page, click Direct to Databases
 - Click Ebrary Electronic Books
 - Click Advanced (to the right of the "Search Ebrary" box)
 - Use the drop-down menu of the "Search in" box to search by subject (or title, author, etc.)
 - For example, a *Search in SUBJECT Science AND SUBJECT Teaching* yields 160 books
 - A *search in SUBJECT Science AND SUBJECT Teaching AND SUBJECT Elementary* yields 138 books
 - A *search in SUBJECT Science AND SUBJECT Teaching AND SUBJECT Middle School* yields 7 books
- A search in SUBJECT Science yields 1511 books

Research Guides in CCOL

The E-Global Research Guides will help you develop a search strategy and then find your way among the best books, periodicals, associations, government resources, and Internet sites on your topic. To see the Research Guides:

- Click *Research Starters by Subject* from the CCOL HOME page
- Click *e-global Research Guides*
- Click Science & Technology

There are Research Guides for

- Biology
- Environmental Science
- Physics
- Health Sciences
- More

Recommended Websites

Although not from scholarly journals, useful information can be found on the web. Most of these sites come highly recommended from a national survey of reference librarians.

Note: websites can change and disappear at any time! If the URL doesn't work, try putting the name of the site into Google.

Resources for teaching in the disciplines <http://fod.msu.edu/OIR/index.asp>
Click on "#17 College of Natural Science" in the center column

Scroll to "Websites Related to Science Education"
<http://libguides.gvsu.edu/content.php?pid=198053&sid=1656858>

Multimedia Resources for Learning and Teaching
<http://www.merlot.org/merlot/materials.htm?materialType=&keywords=science&category=2276&newsearchbutton0.x=12&newsearchbutton0.y=5&newsearchbutton0=Search>

How to teach science

Click #17 Natural Sciences or #15 College of Human Medicine in the center column for excellent links on teaching science <http://fod.msu.edu/OIR/index.asp>

Lesson plans

http://www.thegateway.org/portal_seamarksearch/makesearch?past=subject|http://purl.oclc.org/gem/instance/subject/GEM-S/science||science|*

<http://www.eduref.org/cgi-bin/lessons.cgi/Science>

Kid-safe Science sites

<http://encyclopedia.kids.net.au/page/sc/Science>

Links to science sites in many areas

<http://www.journaliststoolbox.org/archive/science-resources/>

<http://school.discoveryeducation.com/schrockguide/sci-tech/scigs.html>

<http://www.eduref.org/cgi-bin/print.cgi/Resources/Subjects/Science/Agriculture.html>

<http://scout.wisc.edu/Archives/SPT--AdvancedSearch.php?Q=Y&F58=science&RP=5&SR=0&ST=Advanced>

Dictionaries etc.

<http://www.sciencedictionary.org/>

<http://www.science-dictionary.com/>

Safety information

Safety in the science classroom <http://www.nsta.org/pdfs/SafetyInTheScienceClassroom.pdf>

Academic Standards by State

Standards for science teacher preparation <http://www.nsta.org/pdfs/NSTASTandards2003.pdf>

Academic standards by state <http://www.jesandco.net/asn/viewer/>

National Science Education Standards

http://www.nap.edu/openbook.php?record_id=4962

Statistics and demographics

National Center for Education Statistics

http://nces.ed.gov/search/?output=xml_no_dtd&site=nces&client=nces&q=science

Associations

National Science Teachers Association <http://www.nsta.org/>

Massachusetts Association of Science Teachers <http://www.massscienceteach.org/>

Need Opinions or Interview or Survey Respondents?

These are results from the Google search “science teacher forum”

<http://teachers.net/mentors/science/>

<http://www.theteacherscorner.net/forums/showthread.php?2389-science-curriculum>

Video and Audio Podcasts

Teacher Tube

<http://www1.teachertube.com/googleSearch.php?cx=012339422634307447803%3Ah-vlw-wg9yy&cof=FORID%3A11&ie=UTF-8&q=science&sa=Search>

Teacher's Domain

http://www.teachersdomain.org/search/?q=science&fq_grade=PK&fq_grade=PS

Nova from PBS

<http://www.pbs.org/wgbh/nova/teachers/video/>

TED Talks

<http://www.ted.com/search?q=science>

Youtube EDU on teaching science

http://www.youtube.com/edu?edu_search_query=science+teaching&action_search=1

Youtube EDU on science

http://www.youtube.com/edu?edu_search_query=science&action_search=1

PBS Teacher's Resources on science

<http://www.pbs.org/teachers/search/resources/?q=science&x=0&y=0>

Itunes U.

<http://www.apple.com/education/itunes-u/whats-on.html>

Do You Need Books to Expand Your Research?

Google Books at <http://books.google.com> is amazing!

- Be sure to search it for your subject area!
- Click “Advanced Book Search” and check “Full View Only” to limit the search to full-text results
- “PartialView” can also provide plenty of full-text

<http://www.amazon.com> or <http://www.bn.com> Use these easy search engine to get lists of books on your topic and to read excerpts, but try to get the books from your local library or buy from your local independent bookstore. Or, buy a less expensive used copy from an online independent bookstore at <http://www.bookfinder.com>

If you can't find what you need or you need more, ask yourself:

Who would care about this topic?

Where would they publish what they know?

Materials compiled by Maida Tilchen, Project Manager for Library Services © 2011 Cambridge College