

ProQuest CSA

Presents

ELIBRARY CURRICULUM EDITION
TEACHER EXPLORER & GUIDE

for

Science
Teachers & Students



Tools and Content to Increase Teacher Effectiveness and Student Achievement:

- Teacher tools to create and share custom inquiry-based learning activities.
- Lexile reading resources for students reading above, at, and below level.
- Links to strategies and models for building science digital information literacy skills.
- Resources to meet the needs of AP, IB, and mainstream science students.
- Student and teacher tools to save valuable classroom and/or library time.
- Access to science model BookCart collection to support inquiry-based activities.

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eLibrary Content & Tools Help Increase Science Teacher Effectiveness

Each of the significant Social Studies priorities listed below will include examples of how eLibrary unique content and teacher tools support teaching and learning. Each example is intended to motivate teachers to use the resources of eLibrary and BookCarts as the preferred solution for school research contrasted with the use of Internet surfing, Google, and a variety of other student databases. Using the eLibrary solution helps increase teacher effectiveness, integrates technology into teaching and learning standards-based Social Studies content and skills, and builds student 21st Century digital information literacy skills.

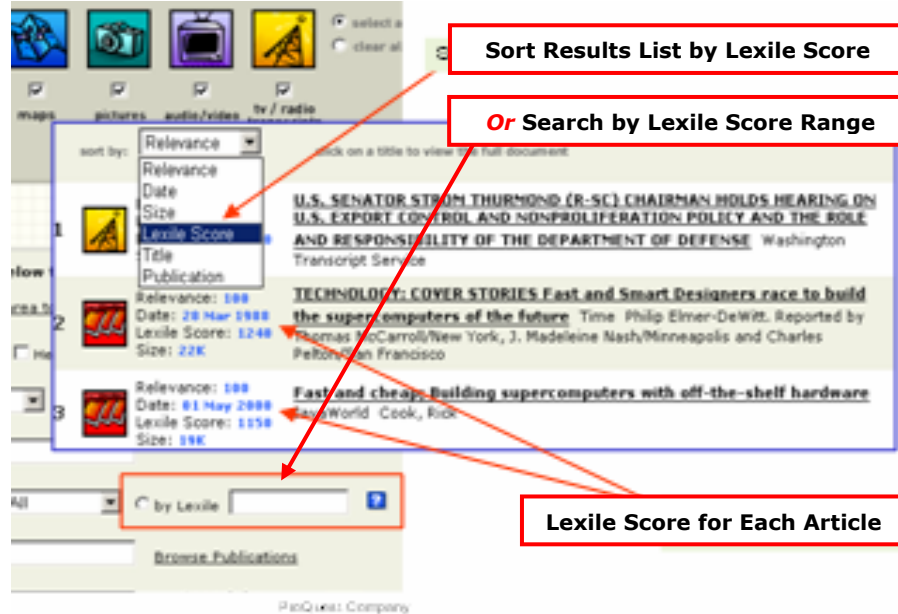
Scientific research demonstrates that increasing teacher effectiveness is the most important factor in increasing student achievement.

Science Priority	eLibrary Unique Content and Tools Example																				
<p><u>Create Custom and Engaging Inquiry-Based Learning Activities Supported by Excellent Science Resources</u></p>	<p>BookCarts empower teachers to select and create custom collections of learning resources: publications to search; articles to browse; websites to explore on any science topic. Teachers can integrate essential questions for critical thinking, student instructions, quizzes, and state standards to provide a lesson plan complete with a variety of the best teacher-selected digital learning resources.</p> <p>No wasted time for CIPA supervising, evaluating relevancy, authority, and decency. Here are some examples from the ProQuest collection of 120:</p> <table border="1"> <thead> <tr> <th>TITLE (* denotes Private Bookcart)</th> <th>SUBJECT</th> </tr> </thead> <tbody> <tr> <td><u>Endangered Species and the Environment</u></td> <td>Science--Earth/Space</td> </tr> <tr> <td><u>EN03--Global Warming (MS/HS)</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>EN04--Clean Water Supply (MS/HS)</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>ST08--Alternative Energy Sources (MS/HS)</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>Acid Rain and Pollution</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>Alternative Energy and the Environment</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>Ecosystems Around the World</u></td> <td>Science--Earth/Space</td> </tr> <tr> <td><u>Global Warming, Greenhouse Effect, and Climate</u></td> <td>Science--Environmental</td> </tr> <tr> <td><u>Weather Systems and Patterns</u></td> <td>Science--Earth/Space</td> </tr> </tbody> </table> <p><u>Copy ProQuest model BookCarts</u> or create your own. Click ProQuest Carts tab, then the appropriate SS (Social Studies) folder. http://www.proquestk12.com/go/modelcarts</p>	TITLE (* denotes Private Bookcart)	SUBJECT	<u>Endangered Species and the Environment</u>	Science--Earth/Space	<u>EN03--Global Warming (MS/HS)</u>	Science--Environmental	<u>EN04--Clean Water Supply (MS/HS)</u>	Science--Environmental	<u>ST08--Alternative Energy Sources (MS/HS)</u>	Science--Environmental	<u>Acid Rain and Pollution</u>	Science--Environmental	<u>Alternative Energy and the Environment</u>	Science--Environmental	<u>Ecosystems Around the World</u>	Science--Earth/Space	<u>Global Warming, Greenhouse Effect, and Climate</u>	Science--Environmental	<u>Weather Systems and Patterns</u>	Science--Earth/Space
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<p><u>Print Current Science Articles for Student Notebooks to Keep Textbooks Up to Date</u></p>	<p>eLibrary CE provides full-text access to more than 100 science magazines and journals that provide the up to date information that science teachers and students need during each science course. Teachers and students can search one media type—magazines--using key words for the science topic in their search. Print and copy articles to use in class discussions and to include in student notebooks. <u>To see a list of science magazines—</u> http://www.proquestk12.com/go/elibsubject Scroll to pages 11-13.</p>																				

Provide Students with Resources Correlated to Their Reading Levels and Abilities

1. Students can Search by or Sort Results by Lexile reading scores.
2. Teachers can build BookCarts on the same topic and include articles with a range of Lexile reading scores for students to select from. Or they can build separate ones for that topic with specific Lexile ranges.

Lexile Reading Level explanation: Click HELP on the eLibrary Search page and then Lexile Reading Level link.

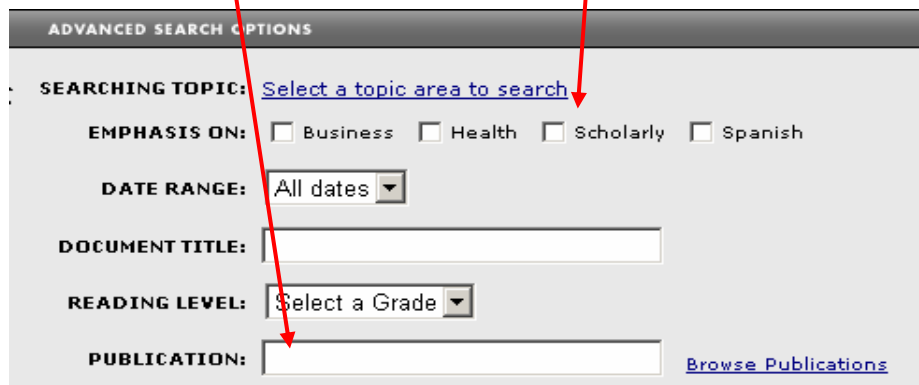


Provide Student Access to Robust Primary Resources for Honors, AP, and Advanced Courses

1. eLibrary CE provides a variety of scholarly journals to support advanced courses in science. Here is the link to samples—scroll to pages 11-13: <http://www.proquestk12.com/go/elibsubject> Search any **one** of these publications when appropriate. **OR** . . .

2. Search by key word and check the **Scholarly Journals** box:

3. Articles from these journals can be selected by teachers and integrated into custom BookCarts. This saves students time in searching that can be reinvested in Science Fair projects, problem-solving, and exploring timely issues in science and technology in greater depth. Teachers can also include **their favorite websites** in these custom BookCarts.



Increase Student Understanding by Providing On-Demand Access to Resources that Define and also Expand Knowledge of Science Terms

1. Both an integrated dictionary and encyclopedias provide students with on demand access to supplemental support resources when they are browsing articles. This helps increase understanding by providing definitions as well as additional information that expands knowledge of the word/topic.
2. English to Spanish dictionary supports ELL student understanding and learning of English.

Click **Reference tab** after highlighting "**infrared**" while browsing document:

There are at least 29 results for the query **infrared**.

Here are the best 29.
bring to top:

dictionary	thesaurus	encyclopedias	almanac	atlas	other
3	0	17	0	0	9

click on a title to view the full document add to my list

1	Relevance: 100 Date: 01 Mar 2004 Reading Level: 7 Size: 1K	infrared American Heritage Dictionary, Fourth Edition	Support for Understanding
4	Relevance: 100 Date: 01 Jun 2005 Reading Level: 9 Size: 1K	infrared American Heritage Spanish Dictionary (English to Spanish)	Support for ELL Students
	Relevance: 100 Date: 01 Jun 2005	INFRARED Young Students Learning Library	Expand Knowledge about the Word or Topic
6	Relevance: 95 Date: 01 Oct 1996 Reading Level: 14 Size: 1K	infrared therapy The Mosby Medical Encyclopedia	

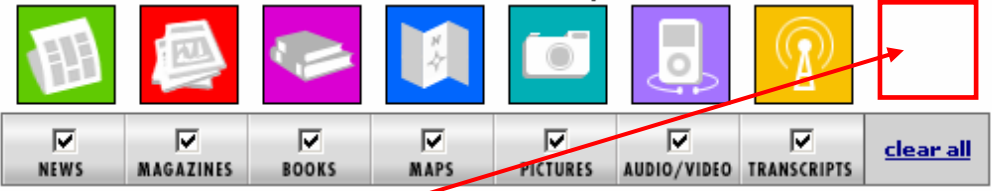
Find Science Resources Correlated to State Standards for Creating Custom BookCarts for Students

eLibrary CE provides a **Standards Search** tool in the Teacher Edition. This saves time for teachers in finding standards-based learning resources to include in BookCarts or for printing and copying for class use and discussion. Click Standards Search link at bottom of the Search page:

Find topics, Web sites and articles that match the curriculum standards for your state.

Select State:

Select Subject:

<p><u>Build Critical Thinking Skills by Researching Science Issues</u></p> <p>Topical Research Focused on Facts Does Not Build Critical Thinking</p>	<p>ProQuest guides, professional development, and BookCarts all integrate the strategies of Bloom’s Taxonomy of higher-order thinking skills (HOTS) into student research activities. Scientific research demonstrates that research activities must address essential questions of why, why not, what if, how, and which one for motivated and permanent learning to take place. http://www.proquestk12.com/go/scirez</p> <p>Too much research is topical in nature with emphasis on facts only: http://www.proquestk12.com/go/scirez2</p> <p>Engaging Issues Guide with correlated BookCarts: http://www.proquestk12.com/go/SBR</p>			
<p><u>Provide a Tool to Generate Formal Citations</u></p>	<p>The Citation Generator saves time for students and teachers that can be invested in more critical thinking and writing. http://www.proquestk12.com/go/elibcitgen</p>			
<p><u>Access a Robust Variety of Media Types in One Search</u></p> <p><u>Save Valuable Classroom Time Searching for a Variety of the Best Science Digital Resources</u></p> <p><u>Increases Time for More Science Achievement-Building Activities</u></p>	<p>eLibrary CE provides seven media types in one key word search, including full-text magazines, reference books, newspapers, transcripts, and graphics content in photos, multimedia, and maps.</p> <p style="text-align: center;">Select all, some, or one media type to search</p> <div style="text-align: center;">  </div> <p>Science related websites are accessed through Topic Search. Soon an additional icon will be added to those above, that will include websites in all search results—eight media types in one search. Websites are indexed to the Topic tree branches listed next:</p> <p style="text-align: center;">Topics Tree Branches to Support Science</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top; padding: 5px;"> <p><u>Science</u></p> <ul style="list-style-type: none"> Earth Sciences Featured Scientists Health Sciences Introduction Life Sciences (Biology) Mathematics Physical Sciences Resources Science Projects Science in the World Technology <p>Science Projects</p> <ul style="list-style-type: none"> Experiments Games Projects </td> <td style="width: 33%; vertical-align: top; padding: 5px;"> <p><u>Technology</u></p> <ul style="list-style-type: none"> Adhesives & Glue Agriculture Biotechnology Computers Emerging Technologies Energy Engineering Ergonomics Fireworks Glassblowing Governmental Policy on Technology & Science Guns & Firearms Introduction Inventors & Inventions Locks & Keys Manufacturing Medical Technology </td> <td style="width: 33%; vertical-align: top; padding: 5px;"> <p><u>Microscopy</u></p> <ul style="list-style-type: none"> Mining Navigation Photocopying Photography Radar Refrigeration Resources Roller Coasters Space Systems Analysis & Design Telecommunications The Future Timber/Lumber Tools Transportation Video & Sound </td> </tr> </table>	<p><u>Science</u></p> <ul style="list-style-type: none"> Earth Sciences Featured Scientists Health Sciences Introduction Life Sciences (Biology) Mathematics Physical Sciences Resources Science Projects Science in the World Technology <p>Science Projects</p> <ul style="list-style-type: none"> Experiments Games Projects 	<p><u>Technology</u></p> <ul style="list-style-type: none"> Adhesives & Glue Agriculture Biotechnology Computers Emerging Technologies Energy Engineering Ergonomics Fireworks Glassblowing Governmental Policy on Technology & Science Guns & Firearms Introduction Inventors & Inventions Locks & Keys Manufacturing Medical Technology 	<p><u>Microscopy</u></p> <ul style="list-style-type: none"> Mining Navigation Photocopying Photography Radar Refrigeration Resources Roller Coasters Space Systems Analysis & Design Telecommunications The Future Timber/Lumber Tools Transportation Video & Sound
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Topic Search Yields Both Websites and Relevant Documents

Saves Teacher Classroom Time for More Science Achievement-Building Activities

Achieve Greater Professional Growth

Access a World-Class Science Professional Library

Professional Library Sample

Topic Search Results



[Science](#) >> [Life Sciences \(Biology\)](#) >> [Evolutionary Biology](#) >> [Introduction](#) >> [Evolution](#)
 [Search within this topic]



Topic Search = Websites and Documents Too



topic results for Evolution



ProQuest Homework Central Websites:

- [Early Evolution](#)
- [Evidence for Evolution - Overview \(.pdf\)](#)
- [The Origin, Evolution & Classification of Microbial Life](#)
- [Beginnings of Life on Earth: Lecture Notes](#)
- [Descent With Modification: A Darwinian View of Life](#)
- [Evolution: Lecture Notes](#)
- [Evolution: Theory & History](#)
- [History of Evolutionary Thought](#)
- [Introduction to Evolutionary Biology](#)
- [The Odyssey of Life](#)

- 


[A LOOK AT THE EVOLUTION OF EVOLUTION](#) Bioscience Wills, Christopher
 Date: 01 Dec 2005
 Reading Level: 12
 Size: 7K
- 


[Generalizing Darwinism to Social Evolution: Some Early Attempts](#)
 Journal of Economic Issues Hodgson, Geoffrey M
 Date: 01 Dec 2005
 Reading Level: 10
 Size: 50K
- 


[Endless Forms Most Beautiful: A New Revolution in Biology](#) The Skeptical Inquirer Carroll, Sean B
 Date: 01 Nov 2005
 Reading Level: 12
 Size: 29K
- 


[Why Darwin's still a scientific hotshot](#) Los Angeles Times James D. Watson
 Date: 18 Sep 2005
 Reading Level: 11
 Size: 10K

eLibrary CE provides a virtual professional library for Social Studies teachers. There are more than 100 magazines and journals that focus on Social Studies content as well as many education publications. The Publication browse tool makes it possible to browse each magazine by date and read or print each full-text article. View a list of the publications that teachers can browse (see pages 11-13 for Science magazines and journals-- pages 18-21 for education magazines and journals):
<http://www.proquestk12.com/go/elibsubject>

This is small sample of science publications

Science, Technology & Environmental Education			
Earth and Space Science			
Air & Space Smithsonian, Aviation History	MS	HS	Air and Space History
Astronomy, Sky & Telescope	MS	HS	Astronomy
Canadian Journal of Earth Sciences		HS	Earth Science
DK EyeWitness Series--Ocean, Rock & Mineral, Humane, Astronomy, Space Exploration	UE	MS	HS
Natural History			HS
Rocks & Minerals	MS	HS	Geology
Journal of the Geological Society			HS
Journal of Paleontology			HS
Journal of Physical Oceanography; Journal of Applied Meteorology and Climatology			HS
NOAA Photo Library	MS	HS	Photos of Earth and Space
Weatherwise, Weather & Forecasting, Journal of Applied Meteorology; Journal of Climate	MS	HS	Meteorology
General Science			
American Science Leader	MS	HS	Scientist Biographies and Information
American Scientist		HS	General Science
DK EyeWitness Series--Inventor, Shipwreck, Arms and Armor	UE	MS	HS
Department of Energy (DOE)			

Eliminate Wasted Time Supervising Student Internet Surfing and Discipline Problems

Increase Time for Coaching Students in How to Use Information

Teachers need to be active in coaching and supporting students during the searching and resource selection process. eLibrary provides two ways to eliminate the need for CIPA supervision and avoiding the discipline and parental problems that may result from Googling and Internet surfing:

1. Use custom *BookCarts* to save time and *ensure authority and relevance*:

Copy ProQuest model BookCarts or create your own
<http://www.proquestk12.com/go/modelcarts>

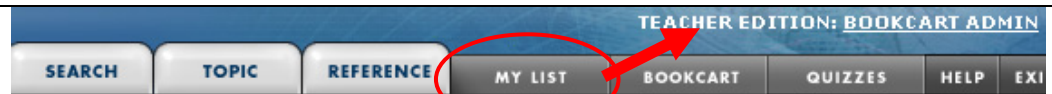
Click English Language Arts in the ProQuest Carts folder.

2. eLibrary vs. Google and Internet Surfing—See the advantages here:
<http://www.proquestk12.com/go/elibgoog>

Provide Teacher and Student Tools that Save Time and Help Organize & Use Resources More Effectively

Teacher View of My List

Student Tool (+) for Creating My List







Teachers click My List after selecting documents to view them



Student Selection Tool for My List



My List with 4 Student Options

<p>Student View of My List Resources</p>	<p style="text-align: right;"> print list email list clear entire list return to most recent search results </p> <p>note: This list is not permanent. If you would like to save your list, print it or email it to yourself. click on title to view full-text document and citation link</p> <p>my list</p> <ol style="list-style-type: none">  Relevance: 100 Date: 01 Nov 2005 Reading Level: 11 Size: 16K Global Warming: If You Can't Stand the Heat The Technology Teacher Baird, Stephen L  Relevance: 100 Date: 01 Nov 2005 Reading Level: 13 Size: 28K THE GLOBAL WARMING CRISIS The Humanist Jordan, Stuart  Relevance: 100 Date: 02 Feb 2007 Reading Level: 10 Size: 5K Report: Global warming to last for centuries / Scientists say it's `very likely' caused by people Houston Chronicle SETH BORENSTEIN Associated Press  Relevance: 100 Date: 01 Sep 2006 Reading Level: 13 Global Warming: Apocalypse Now? Commentary Shapiro, Kevin
<p>Assess Knowledge of Science Content with <u>Automatic Scoring when Emailed to the Teacher</u></p>	<p>Each BookCart has a QuizCart option. QuizCarts are best used as a pre-research activity to assess adequate knowledge of Science content prior to the more complex and demanding mini-research activity.</p> <p>Quizzes</p> <p>QUIZ QUESTION:</p> <p style="border: 2px solid red; padding: 2px; display: inline-block;">Create up to 10 Questions</p> <p>ANSWER A: <input type="text"/></p> <p>ANSWER B: <input type="text"/></p> <p>ANSWER C: <input type="text"/></p> <p>ANSWER D: <input type="text"/></p> <p>ANSWER E: <input type="text"/></p> <p>CORRECT ANSWER: <input type="text"/> <input type="button" value="Add"/> Show Readings/Website before Quiz: <input checked="" type="checkbox"/></p> <p>QUIZ: (CLICK TO EDIT)</p> <ol style="list-style-type: none"> Which of these alternative energy sources has the most present benefits for vehicles? Which of these is the biofuel made from corn? Which of these states does not have or is planning an ethanol production facility?
<p><u>Plagiarism—Reduce or Eliminate It</u></p>	<p>Plagiarism is decreased when teachers assign fresh and engaging topics each year and include a variety of engaging critical thinking questions. http://www.proquestk12.com/go/engage</p>
<p><u>Meet Professional Development State Mandates for CEU Credits and Get Free Online Training</u></p>	<p>eLibrary Professional Development is CEU-eligible and provides a one-day, onsite, and hands-on training. The focus is on how teachers can create, manage, and evaluate student mini-research projects that integrate critical thinking through the use of higher-order questions. Technology is fully and flexibly integrated throughout the process. eLibrary BookCarts are the primary method of creating digital lesson plans for inquiry-based activities. http://www.proquestk12.com/go/profdevinfo</p> <p>Free online training schedule: http://www.proquestk12.com/go/vidtrain</p>

