

# Finding Information on Math, Physics, and Astronomy

If you need assistance at any point in your research, please contact a reference librarian at [nhtireference@ccsnh.edu](mailto:nhtireference@ccsnh.edu) or by phone at 603-271-7186.

## To find books, CDs, and DVDs in the library

The **Library Catalog** can be accessed via the library's homepage:  
[www.nhti.edu/library](http://www.nhti.edu/library)

> **Click on the On-Line Catalog button**

(The catalog can also be accessed directly at:  
[www.library.ccsnh.edu](http://www.library.ccsnh.edu))

**Search tips:** Search for books in the library catalog (see also General Research Guide). Start with a keyword or subject search. Select Concord as your location. When you find an interesting book, look at the subject headings in the record.

By selecting any one of those links, you can refine your search to include all books with that particular subject heading. Be sure to write down shelf location and call number to locate the book.

Library	Shelf Location	Call Number	Item Status
Concord	General Collection	QA21 .P53 2009	Available

**Examples of keywords:** mathematics, magnetism, physics, astronomy, force and energy, sound thermodynamics

**Browsing:** You can also browse the shelves at the library. The books in the library are organized by the Library of Congress Classification system, which uses letters and numbers as a code for a subject. This code is referred to as the call number. The following LC classes will be helpful to you: **QA – for Mathematics, QB – Astronomy, QC – for Physics**

### **Select NEW BOOKS available in our collection:**

*100 Essential Things You Didn't Know You Didn't Know* by Barrow QA99 .B188 2009

*Alternative Energy* by Black and Flarend TJ163.25.U6 B58 2010

*The Babylonian Theorem* by Rudman QA22 .R859 2010

*Basic Physics for All* by Kumar QC23.2 .K86 2009

*Clockwork Universe* by Dolnick QC16.N7 D665 2011

*Essential Math Skills for Engineers* by Paul QA37.3 .P39 2009

*How Old is the Universe?* by Weintraub QB501 .W45 2011

*The Manga Guide to Statistics* by Takahashi QA276 .T228 2009

*The Math Book* by Pickover QA21 .P53 2009

*A Question and Answer Guide to Astronomy* by Bely, Christian, and Roy QB52 .B45 2010

*Why Does  $E=mc^2$ : (And Why Should We Care?)* by Cox and Forshaw QC173.6 .C68 2009

### **Select REFERENCE BOOKS available in our collection:**

*Ancient Astronomy: An Encyclopedia of Cosmologies and Myth* REF QB16 .R84 2005

*Historical Encyclopedia of Atomic Energy* REF QC772 .A87 2000

*MacMillan Encyclopedia of Physics* REF QC5 .M15 1996

*Real-Life Math* REF QA5 .R36 2006

### **Select DVDs and CDs available in our collection:**

*The Astronomers* DVD QB355 .A778 2002  
*Cosmos* DVD QB44.3 .C67 2008  
*Einstein's Big Idea* DVD QC16.E5 E567 2005  
*Elegant Universe* DVD QC794.6.S85 G75 2003  
*Essential Space Collection* DVD QB501.A1 E77 2009  
*God, the Universe and Everything Else* DVD QB500 .G63 2007  
*Newton's Dark Secrets* DVD QC16.N7 N498667 2006  
*Seeing in the Dark* DVD QB43.3 .S44 2007  
*Stephen Hawking's Universe* DVD QB981 .S746 2004  
*The Story of Math* DVD QA21.S767 S7679 2009  
*Telescope: Hunting the Edge of Space* DVD QB500.268 .H968 2010  
*The Universe* DVD QB44.3 .U55 2009

### **Reserved Books**

Go to the circulation desk to sign out books and other materials assigned by your class instructor. These resources are for use in the library only. Reserved books are identified in the library catalog as RESERVE COLLECTION – Please see Circulation.

Sample titles:

- *Beginning Algebra* by Martin-Gay, 2009
- *Physics* by Walker, 2010
- *Precalculus* by Blitzer, 2010
- *Thinking Mathematically* by Blitzer, 2011

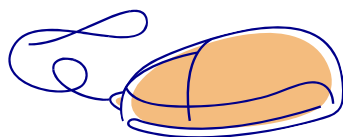
### **Magazines and Journals**

The following print magazines and journals are available in the library but cannot be checked out. Articles may be scanned at the BookScan Station and emailed or saved to a USB drive. A coin operated photocopier is also available. A list of all the magazines is can be accessed from the library's homepage. Select Union List of Periodicals.

- *Astronomy*
- *Discover*
- *Popular Science*
- *Science Illustrated*
- *Science News*
- *Scientific American*
- *Sky & Telescope*

### **Electronic Resources**

Off-campus access to electronic resources is restricted to members of the NHTI community. Use these instructions to access electronic resources off-campus.



#### **Logging in to Electronic Resources Off-Campus:**

##### **Students:**

If your email address is **jdoe123@students.ccsnh.edu** then your username is **jdoe123**

##### **Faculty and Staff:**

If your email address is **jdoe@ccsnh.edu** then your username is **jdoe**

**In both cases your password is your email password.**

## eReference

**Credo Reference** is a multidisciplinary reference collection including directories, encyclopedias, fact or reference books and full-text books.

Sample titles:

- *Astronomy Encyclopedia*, 2002
- *Atlas of the Universe*, 2005
- *Collins Dictionary of Astronomy*, 2006
- *Dictionary of Astronomy*, 2001
- *Encyclopedia of the Solar System*, 2007
- *Guide to Stars and Planets*, 2004
- *The Penguin Dictionary of Mathematics*, 2008
- *The Penguin Dictionary of Physics*, 2009
- *The Princeton Companion to Mathematics*, 2008

**Gale Virtual Reference** is a multidisciplinary database of directories, encyclopedias, fact or reference books; full-text periodicals/journals; full text newspaper and other news sources; full-text ebooks and historical collections in digital format. (Password- conc90075)

Sample titles:

- *Encyclopedia of Space Science and Technology*, 2003
- *Macmillan Encyclopedia of Energy*, 2001

## eBooks

**eBooks on EBSCOhost®** is an online collection of ebooks. Search by topic or title and view the full text of digital books. Create notes, download to portable devices, save, cite and email options available.

Sample titles:

- *Bob Miller's Algebra for the Clueless* by Miller, 1999
- *God's Equation: Einstein, Relativity, and the Expanding Universe* by Aczel, 1999
- *Mathematical Handbook of Formulas and Tables* by Liu and Spiegel, 1999
- *Seeking Ultimates: An Intuitive Guide to Physics* by Landsberg, 2000
- *Schaum's Outline of Theory and Problems of Mathematics for Nurses* by Nishiura, Stephens, and Stephens, 2003

**EBRARY** is an online e-book database listed on the Library's Database Page. The ebrary collection contains thousands of books that can be accessed off campus 24/7.

Sample titles:

- *Astronomy: A Self-Teaching Guide* by Moché, 2009
- *Calculus for the Utterly Confused* by Oman and Oman, 2007
- *New Worlds, New Horizons in Astronomy and Astrophysics*, 2010
- *Objective Physics* by Pillai, Pillai, and Gnanasekaran, 2009
- *Physics of the Universe* by Sachs, 2010
- *Trig or Treat: An Encyclopedia of Trigonometric Identity Proofs (Tips) with Intellectually Challenging Games* by Yeo, 2007

## Article Databases

The NHTI Library subscribes to comprehensive article databases: **EBSCOHost**, **JSTOR** and **ProQuest**. All are accessible via the library homepage. The lists below are just a selection of the many titles available in these Databases. If you are looking for a particular title check the publications list in each database. **All databases may be searched by topic keywords.**

**EBSCOHost** Provides online access to articles, e-books, and reference books. Create your personal MyEBSCOhost account to save and organize your research with folders, save preferences, save and retrieve search history.

Sample titles:

- *Acta Mathematica Hungarica*
- *Advances in Physics*
- *Applied Mathematics & Optimization*
- *Astronomy and Astrophysics Review*
- *Contemporary Physics*
- *International Journal of Mathematics*
- *Inventiones Mathematicae*
- *Journal of Numerical Mathematics*
- *Physics Today*
- *SIAM Review*
- *Statistics*
- *Studies in Applied Mathematics*

**JSTOR** Contains more than a thousand academic journals and over 1 million images, letters, and other primary sources. Main focus is arts and humanities. Register a MyJSTOR account in order to save, email and export citations.

Sample titles:

- *American Journal of Mathematics*
- *The Annals of Mathematics*
- *Bernoulli*
- *Journal of the American Mathematical Society*
- *Mathematics of Computation*

**PROQUEST** Access journal, magazine, and newspaper articles. Also contains e-books. Primary subject focus is news, science, and business. The My Research feature lets you save documents you find useful and view details from your searches during your ProQuest session. You can then print a bibliography and email or export several documents at once.

Sample titles:

- *Acta Mathematica*
- *Annals of the Institute of Statistical Mathematics*
- *Astronomy and Astrophysics Review*
- *Discrete & Computational Geometry*
- *Foundations of Computational Mathematics*
- *Journal for the History of Astronomy*
- *Journal of Astrophysics and Astronomy*
- *Journal of Mathematics*
- *Journal of Physics Research*

## eResources

### **shmoop**

Shmoop's pre-algebra learning guide features information on basic operations, fractions and decimals, ratios and percentages, basic geometry, basic statistics and probability, and basic algebra. Each section contains explanations of major topics and terminology. Shmoop is accessed from the NHTI Library Databases page.

### **Science Reference Center**

Contains science e-books and journals. Click on Physical Sciences to explore topics such as forces, reflection and refraction, and waves and dynamics. The Space Sciences and Astronomy section links to over three dozen topics including astrophysics, dark matter, and novae and supernovae. Science Reference Center is accessed from the EBSCOhost Services Menu.

## Internet Resources

### **NASA Science** [www.science.nasa.gov](http://www.science.nasa.gov)

Educational website sponsored by NASA containing educational materials, images, and current news.

### **NHTI Learning Center's Math Resources** [www.nhti.edu/learningcenter/resources.html](http://www.nhti.edu/learningcenter/resources.html)

Comprehensive list of recommended websites on various subjects including math anxiety, how to study for math tests, pre-algebra lessons, specific topics in math, and worksheets on difficult topics.

### **Physics World** [www.physicsworld.com](http://www.physicsworld.com)

Sponsored by the Institute of Physics, Physics World features industry news, a blog, helpful links, and a series of videos.

### **Physics.org** [www.physics.org](http://www.physics.org)

A website for students authored by the Institute of Physics. Physics.org includes experiments, facts, games, and information on various physics questions and curiosities.

### **SOS Mathematics** [www.sosmath.com](http://www.sosmath.com)

This is a free resource for math review material from Algebra to Differential Equations. Browse more than 2,500 Math pages filled with short and easy-to-understand explanations. Click on one of the following subject areas: Algebra, Trigonometry, Calculus, Differential Equations, Complex Variables, Matrix Algebra, or Mathematical Tables.

## Online Career Resources

**Career Library** features Industry Career Guides, Career Profiles, Job Application and Interview Advice. Career Library can be accessed through the Databases page.

**Learning Express** Access is through the NHTI Library Databases page. Online tutorials in all NHTI skill-areas. Includes assessment, skill-building, and test preparation. Learning Express provides professional hand scoring of writing and provides targeted direction for further study. Offers test preparation for GED, AP, SAT, ACT, GRE, GMAT, MCAT, TOEFL, ASVAB, civil service, and a full range of professional licensing exams. Available 24/7 from anywhere. Free registration required for access.