



# K-12 Web Resources for Your Science Classroom

[k12.nlm.nih.gov](http://k12.nlm.nih.gov)

## Biology

### Against the Odds: Making a Difference in Global Health (Grades 9-12+)

How communities work to improve quality of life. Classroom resources included.

[apps.nlm.nih.gov/againsttheodds](http://apps.nlm.nih.gov/againsttheodds)

### MedlinePlus® (Grades 6-12+)

Easy to read health information. An excellent source for all ages. Also available in Spanish.

[medlineplus.gov](http://medlineplus.gov)

### Rewriting the Book of Nature: Charles Darwin and the Rise of Evolutionary Theory (Grades 9-12+)

Explore the scientific discoveries and contributions of Charles Darwin.

[nlm.nih.gov/exhibition/darwin/index.html](http://nlm.nih.gov/exhibition/darwin/index.html)

### PubMed®/MEDLINE® (Grades 11-12+)

A citation index for articles from medical and life science journals. View the PubMed tutorial for site navigation.

[pubmed.gov](http://pubmed.gov)

### Visible Human Project® (Grades 6-12+)

Complete, anatomically detailed, 3D representations of the normal male and female human bodies.

[nlm.nih.gov/research/visible/visible\\_human.html](http://nlm.nih.gov/research/visible/visible_human.html)

## Chemistry

### ChemIDplus®/ Chemicals Page (Grades 7-12+)

View and manipulate chemical structures for more than 400,000 chemicals. Create cis and trans models, conduct structure similarity searches, and view chemical synonyms.

[sis.nlm.nih.gov/chemical.html](http://sis.nlm.nih.gov/chemical.html)

## Environmental Health Science

### Engaging Educational Animations (Grades 6-8)

Engaging educational animations that convey complex environmental health concepts.

[kidsenvirohealth.nlm.nih.gov/generic/3/videos](http://kidsenvirohealth.nlm.nih.gov/generic/3/videos)

### Environmental Health Student Portal (Grades 6-8)

Connects middle school students to environmental health information.

[kidsenvirohealth.nlm.nih.gov](http://kidsenvirohealth.nlm.nih.gov)

### Household Products Database (Grades 6-12+)

Learn about the potential health effects of chemicals in common household products.

[hpd.nlm.nih.gov](http://hpd.nlm.nih.gov)

### TOXMAP® (Grades 9-12+)

Uses maps of the United States to visually explore Superfund and Toxic Release Inventory data from the EPA. Includes classroom materials.

[toxmap.nlm.nih.gov/toxmap](http://toxmap.nlm.nih.gov/toxmap)

### Tox Town® (Grades 6-12+)

Guide to commonly encountered toxic substances. Includes classroom materials. Also available in Spanish.

[toxtown.nlm.nih.gov](http://toxtown.nlm.nih.gov)

### Tox Town® Environmental Health Curriculum for Middle School (Grades 6-8)

Lessons and activities combine research on the Tox Town website with hands-on experiments and social action activities.

[toxtown.nlm.nih.gov/text\\_version/teachers.php?id=2](http://toxtown.nlm.nih.gov/text_version/teachers.php?id=2)

### ToxLearn and Toxicology Tutorials (Grades 9-12+)

Written at the introductory college student level; teaches basic toxicology principles.

[sis.nlm.nih.gov/enviro/toxtutor.html](http://sis.nlm.nih.gov/enviro/toxtutor.html)

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## Educational Games



Entertain and educate at the same time. View our games on chemistry, environmental health, and genetics on the K-12 homepage:

[k12.nlm.nih.gov](http://k12.nlm.nih.gov)

National Library of Medicine  
8600 Rockville Pike  
Bethesda, MD 20894  
1.888.Find.NLM (1.888.346.3656)  
custserv@nlm.nih.gov

[nlm.nih.gov](http://nlm.nih.gov)



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### Forensic Science and Medical Technology

#### Frankenstein – Penetrating the Secrets of Science (Grades 6-12+)

Explores Frankenstein as a framework for discussing the ethics involved in scientific research. Lesson plans included.

[nlm.nih.gov/frankenstein](http://nlm.nih.gov/frankenstein)

#### Visible Proofs: Forensic Views of the Body (Grades 6-12+)

Collection of images, videos, and stories about the history and the development of forensics. Classroom resources included.

[nlm.nih.gov/visibleproofs](http://nlm.nih.gov/visibleproofs)

### Genetics

#### GeneEd (Grades 9-12)

Links to vetted genetics websites based on high school science curriculum. Includes lesson plans and current events.

[geneed.nlm.nih.gov](http://geneed.nlm.nih.gov)

#### Genetics Home Reference™ (Grades 6-12+)

Information about genetic conditions.

[ghr.nlm.nih.gov](http://ghr.nlm.nih.gov)

#### Harry Potter's World: Renaissance Science, Magic, and Medicine – Genetic Traits (Grades 9-12)

Explore the genetics of the characters and the roots of the creatures and magic in the Harry Potter book series in terms of Renaissance science and historical lore. Lesson plans included.

[nlm.nih.gov/exhibition/harrypottersworld](http://nlm.nih.gov/exhibition/harrypottersworld)

#### Help Me Understand Genetics Handbook (Grade 6-12+)

Information about genetics in clear language and links to online resources.

[ghr.nlm.nih.gov/handbook](http://ghr.nlm.nih.gov/handbook)

### Health Information Tutorials

#### Evaluating Internet Health Information Tutorial (Grades 6-12+)

Learn how to evaluate health information found on the Web. Middle school and up.

[nlm.nih.gov/medlineplus/webeval/webeval.html](http://nlm.nih.gov/medlineplus/webeval/webeval.html)

#### Finding and Using Health Statistics (Grades 9-12+)

Course in health statistics. Also includes strategies for locating health statistics.

[nlm.nih.gov/nichsr/usestats/index.html](http://nlm.nih.gov/nichsr/usestats/index.html)

#### Guide to Health Web Surfing (Grades 6-12+)

What to look for when evaluating the quality of health information on the Internet.

[nlm.nih.gov/medlineplus/healthywebsurfing.html](http://nlm.nih.gov/medlineplus/healthywebsurfing.html)

#### Understanding Medical Words (Grades 9-12+)

Tutorial for consumers on understanding medical terminology.

[nlm.nih.gov/medlineplus/medicalwords.html](http://nlm.nih.gov/medlineplus/medicalwords.html)

### Science in Society

#### Native Voices (Grades 6-12+)

Lesson plans that explore Native Americans' relationship to their health and the environment. The lessons enhance the experience of the Native Voices traveling and online exhibit.

[nlm.nih.gov/nativevoices/resources/lesson-plans-list.html](http://nlm.nih.gov/nativevoices/resources/lesson-plans-list.html)

### Careers

#### Changing The Face of Medicine: Celebrating America's Women Physicians (Grades 9-12+)

Features the lives and work of women physicians from the 19th century. Classroom resources included.

[nlm.nih.gov/changingthefaceofmedicine](http://nlm.nih.gov/changingthefaceofmedicine)

#### Enviro-Health Links: Education, Careers and Outreach in Toxicology and Environmental Health (Grades 9-12+)

Links to websites about education and careers in toxicology and environmental health.

[sis.nlm.nih.gov/enviro/edcotox.html](http://sis.nlm.nih.gov/enviro/edcotox.html)

#### Health Occupations (Grades 9-12+)

Resource links to information about health occupations.

[nlm.nih.gov/medlineplus/healthoccupations.html](http://nlm.nih.gov/medlineplus/healthoccupations.html)

### Spanish Resources

#### MedlinePlus® (Grades 6-12+)

[medlineplus.gov/Spanish](http://medlineplus.gov/Spanish)

#### ToxMystery en español (Grades 1-5)

[toxmystery.nlm.nih.gov/espanol.html](http://toxmystery.nlm.nih.gov/espanol.html)

#### Tox Town en español (Grades 6-12+)

[toxtown.nlm.nih.gov/espanol](http://toxtown.nlm.nih.gov/espanol)

### Connect with the NLM K-12 Team:

#### K-12 Newsletter

<http://bit.ly/1Fj81IG>

#### Twitter

@NLM\_K12