

K-12 Web Resources

Chemistry Articles Genetics
 Tutorials Biology Environmental
 Forensics Virtual Labs Health Lesson Plans
 Videos Toxicology Experiments Games



k12.nlm.nih.gov

The National Library of Medicine (NLM) produces free, engaging, reliable K-12 health and science resources, including websites, lesson plans, classroom activities, animations, games, and more.

BIOLOGY/GENETICS

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

MedlinePlus® (Grades 6-12+) Excellent, easy to read health information for all ages. Also available in Spanish.

medlineplus.gov

GeneEd (Grades 9-12+) Genetic websites featuring topics from high school curricula. Includes lesson plans and current events in genetics. geneed.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 series. Lesson plans included.

www.nlm.nih.gov/exhibition/harrypottersworld

Rewriting the Book of Nature: Charles Darwin and the Rise of Evolutionary Theory (Grades 9-12+) Explores the scientific discoveries and contributions of Charles Darwin.

www.nlm.nih.gov/exhibition/darwin/index.html

CHEMISTRY

ChemIDplus®/ Chemicals Page (Grades 7-12+) Manipulate chemical structures for 400,000+ chemicals. Create cis and trans models, conduct structure similarity searches, and view chemical synonyms.

sis.nlm.nih.gov/chemical.html

ENVIRONMENTAL HEALTH SCIENCE

Environmental Health Student Portal (Grades 6-8) Connects middle school students to environmental health information. kidsenvirohealth.nlm.nih.gov

Native Voices: Exhibition Related Lesson Plans (Grades 6-12) Lesson plans enhance the experience of visiting or interacting online with the Native Voices Exhibition. nlm.nih.gov/nativevoices/resources/lesson-plans-list.html

ToxMystery™ (Grades 1-5) Interactive site teaching students about toxic substances in the home. Includes lesson plans and activities. Also available in Spanish. toxmystery.nlm.nih.gov

Tox Town® (Grades 6-12+) Guide to commonly encountered toxic substances. Includes classroom materials, curriculum for middle school, and more. Also available in Spanish. toxtown.nlm.nih.gov

FORENSICS & MEDICAL TECHNOLOGY

Frankenstein – Penetrating the Secrets of Science (Grades 6-12+) Explores Frankenstein as a framework for discussing scientific research ethics. Lesson plans included. www.nlm.nih.gov/frankenstein

Visible Proofs: Forensic Views of the Body (Grades 6-12+) Collection of images, videos, and stories about the history and development of forensics. Classroom resources included. www.nlm.nih.gov/visibleproofs

GAMES & ANIMATIONS

Environmental Health Animations (Grades 6-8) Dynamic and entertaining characters guide students through environmental health adventures. kidsenvirohealth.nlm.nih.gov/generic/3/videos

TOXinvaders (mobile iOS game) (Grades 6-12) Learn chemistry while saving the environment from toxic chemicals. <http://apple.co/1FHuaP7>

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