

The Exhibition Program at the National Library of Medicine creates online exhibitions that interprets and presents scholarly research in science, history, medicine, and technology in the context of time and society. Our exhibition websites feature rich array of visual primary sources and inter-disciplinary perspectives. And many of them provide classroom materials as examples of how interpretive exhibition stories about peoples, places, and events related to science and medicine, may be used to foster engagement and learning among students.

List of Online Exhibitions and Educational Resources



Native Voices: Native Peoples' Concepts of Health and Illness

(<http://www.nlm.nih.gov/nativevoices>)

explores the interconnectedness of wellness, illness, and cultural life for Native American, Alaska Natives, and Native Hawaiians. *Native Voice* features various multimedia classroom resources in its [Interviews](#), [Timeline](#), and [Resources](#) sections.



Against the Odds: Making a Difference in Global Health (<http://www.nlm.nih.gov/againsttheodds/>)

Description: *Against the Odds* highlights stories of communities that, in collaboration with scientists, advocates, governments, and international

organizations, are taking up the challenge to improve access to healthcare and quality of life around the world. The [Online Activities & Resources](#) section provides lesson plans and online games, and the [Get Involved](#) section offers opportunities to consider different perspectives, share one's own thoughts, and get involved.

Visible Proofs: Forensic Views of the Body (<http://www.nlm.nih.gov/visibleproofs/>)

Description: *Visible Proofs* presents a rich collection of images and stories about the history and the development of the forensic field. The [Education](#) and [Resources](#) sections offer K-12 online activities, lesson plans, bibliographies, and career information.



Changing the Face of Medicine: Celebrating America's Women Physicians (<http://www.nlm.nih.gov/changingthefaceofmedicine/>)



Description: *Changing the Face of Medicine* features the lives and work of more than 300 women physicians from the 19th century to the present day. The online exhibition provides a searchable database of the women physicians and films of select women. Four online activities are available in the [Activities](#) section, and lesson plans and career resources are in the [Resources](#) section.



"And there's the humor of it" Shakespeare and the four humors

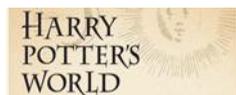
(<http://www.nlm.nih.gov/shakespeare>)

Description: *"And there's the humor of it"* explores how Shakespeare's his rich characters reflect the understanding of his time about human personality and health being shaped by four humors—i.e., bodily fluids. The [Education](#) section offers middle and high school lesson plans, a higher education module, and bibliography of suggested readings.

Frankenstein: Penetrating the Secrets of Nature

(<http://www.nlm.nih.gov/frankenstein/>)

Description: The *Frankenstein* web site explores Mary Shelley's world that gave birth to *Frankenstein*. The exhibition considers how her novel provides a framework for discussions of contemporary bio-medical advances that sometimes challenge our understanding of what it means to be human. The [Lesson Plans](#) section offers middle and high school lesson plans, and a higher education module is available in the [Higher Education](#) section.



Harry Potter's World

(<http://www.nlm.nih.gov/harrypottersworld/>)

Description: *Harry Potter's World* explores the roots of the creatures and magic in the

Harry Potter book series in Renaissance science and historical lore. It also examines ethical issues faced by characters in the books that Renaissance scientists, as well as scientists today grapple with. The [Education Resources](#) section includes Science and English lesson plans for middle and high school grades, higher education module, online activities, and a bibliography of suggested readings.

The Literature of Prescription: Charlotte Perkins Gilman and "The Yellow Wall-Paper"

(<http://www.nlm.nih.gov/literatureofprescription>)

Description: *The Literature of Prescription* features Gilman, an influential advocate for women's rights and a prolific author, and her haunting short story, "The Yellow Wall-Paper." The [Education](#) section offers English and Health Education lesson plans for high school teachers, a higher education module, online activities, and additional reading and web resources.



Binding Wounds and Pushing Boundaries: African Americans in Civil War Medicine

(<http://www.nlm.nih.gov/bindingwounds>)

Description: *Binding Wounds* looks at the African American men and women who served as surgeons and nurses and how their work as health care providers challenged the prescribed notions of race and

gender. This online exhibition also offers [Education](#) section where elementary and high school lesson plans, a higher education module, online activities, and suggested readings are available.

Life and Limb: The Toll of the American Civil War

(<http://www.nlm.nih.gov/lifeandlimb>)

Description: *Life and Limb* explores the experiences of veterans of the American Civil War who survived severe wounds and loss of limbs.



These veterans were a symbol of the fractured nation and a stark reminder of the costs of the conflict. The [Education](#) section of the web site contains middle and high school lesson plans, online activities, and lists of suggested readings and web resources.

The Once and Future Web: Worlds Woven by the Telegraph and Internet (<http://www.nlm.nih.gov/onceandfutureweb/>)

Description: *The Once and Future Web* presents the parallel history of the telegraph and the Internet with various audiovisual primary sources. These multi-sensory materials can engage students in research and exploring the historical, technological, and social context in which the telegraph and the Internet developed and flourished. The [Learning Station](#) section with online and classroom activities.



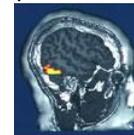
Dream Anatomy

(<http://www.nlm.nih.gov/dreamanatomy>)

Description: *Dream Anatomy* presents a rich collection of images reflecting the anatomical imagination from the 1500s to the present. This web site includes a [Learning Station](#) with three lesson plans and two online activities.

Breath of Life (<http://www.nlm.nih.gov/hmd/breath/breathhome.html>)

Description: *Breath of Life* examines the medical and human history of asthma. In addition to providing a historical perspective, the exhibition offers practical resources to help answer questions, such as "What is asthma?" "Who has asthma and why?" "Can it be managed, prevented, or cured?" and "How do people cope with asthma?"



Emotions and Disease

(<http://www.nlm.nih.gov/exhibition/emotions/index.html>)

Description: *Emotions and Disease* uses a historical approach and primary source materials to convey the complex relationships between scientific theories, popular ideas, and their cultural contexts. Using images and text, the exhibition shows our efforts to understand any relationship between the body and mind through time.

For more information, visit the Exhibition Program web site at <http://www.nlm.nih.gov/hmd/about/exhibition/index.html>

Relevant K-12 Educational Standards

Information Literacy Standards for Student Learning

(American Association of School Librarians, Association for Educational Communications and Technology)

- The student who is information literate uses information accurately and creatively.
- The student who is an independent learner is information literate and pursues information related to personal interests.
- The student who is an independent learner is information literate and appreciates literature and other creative expressions of information.
- The student who contributes positively to the learning community and society is information literate and recognizes the importance of information to a democratic society.

English Language Arts Standards

(National Council of Teachers of English)

- Students read a wide range of print and non-print texts to build an understanding of texts, of themselves, and of the cultures of the United States and the world; to acquire new information; to respond to the needs and demands of society and the workplace; and for personal fulfillment. Among these texts are fiction and nonfiction, classic and contemporary works.
- Students use a variety of technological and information resources (e.g., libraries, databases, computer networks, video) to gather and synthesize information and to create and communicate knowledge.
- Students use spoken, written, and visual language to accomplish their own purposes (e.g., for learning, enjoyment, persuasion, and the exchange of information).

National Science Education Standards

- **Science as inquiry:** Students develop understandings about scientific inquiry that
 - a) scientific investigations involve asking and answering questions and comparing the answer with what scientists already know about the world;
 - b) different kinds of questions suggest different kinds of scientific investigation;
 - c) mathematics is essential in scientific inquiry; and
 - d) scientists make the results of their investigations public so that others can repeat the investigation, and review and ask questions about results of other scientists' work.
- **Science and Technology:** Students develop understandings about science and technology that:
 - a) tools help scientists make better observations, measurements, and equipment for investigations;
 - b) people have always had questions about their world and science is one way of answering questions and explaining the natural world;
 - c) creativity, imagination, and a good knowledge base are all required in the work of science and engineering; and
 - d) many different people in different cultures have made and continue to make contributions to science and technology.
- **Science in Personal and Social Perspective:** Students develop understandings that
 - a) selection of food and eating patterns determine nutritional balance; and
 - b) progress in science and technology can be affected by social issues and challenges.
- **History and Nature of Science:** Students develop understandings of science as a human endeavor and the history of science where:
 - a) scientists are influenced by societal, cultural and personal beliefs and ways of viewing the world; and science is not separated, but a part of society.
 - b) In history, diverse cultures have contributed scientific knowledge and technological inventions.



Exhibition Program Educational Resources on the Web

www.nlm.nih.gov/hmd/about/exhibition/index.html

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