STEM-Related Databases in ELM

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Major Types of Content

**Multimedia**

Find in: *Student Resources In Context*
- Tip: Search specifically for images, video, or audio using the limiter on the basic search box. Or browse Topic Pages under the category Science & Health

Find in: *Science Reference Center*
- Tip: Search for images and video by clicking on the option in the top navigation bar under More.

Find in: *Britannica Online School Edition*
- Tip: Search a topic. Multimedia is embedded within the results and listed separately to the side under Multimedia.

**Articles**

Find in: *Science Reference Center*

Find in: *Academic Search Premier*
- Tip: Search a specific topic in scholarly/peer-reviewed journals (Ex. *Journal of Modern Physics*)

Find in: *Britannica Online School Edition*
- Tip: Search for background information, explanations, or biographies

**Interactive Learning Materials**

Find in: *Britannica Online School Edition*
- Tip: Click on the Learning Materials link in the top banner. Interactive Lessons, Web Site Activities, Learning in Action, and Study Guides are located there. Many work very nicely on the Smart Board.
- Tip: Click on the Workspace link in the top banner. Then, click on the tab See a Shared Workspace and type in STEM MN (all caps) in the Name field.

**Science Experiments**

Find in: *Student Resources In Context*
- Tip: Search a specific topic in the advanced search and limit the Document Type to Experiment activity.

Find in: *Science Reference Center*
- Tip: On the home page click on Science Experiments on the Reference Shelf – limit the results by adding your topic keyword or subject in the search box
ELM for K-12 Academic Standards matches great content from sources you know and trust – like Encyclopedia Britannica, Time Magazine, the New York Times, and hundreds more – to the Minnesota K-12 Academic Standards teachers include in their curricula.

**Science 2009 Standards**

- **9.1: The Nature of Science and Engineering**
- **9.2: Physical Science**
  - **9.2.1: Matter**
    - **9.2.1.1: The structure of the atom determines chemical properties of elements.**
      - **9.2.1.1.1: Describe the relative charges, masses, and locations of the protons, neutrons, and electrons in an atom.**
        - Magazines, Journals, & More (17)
        - Encyclopedia Articles (13)
        - Print / Link / Embed this benchmark
      - **9.2.1.2: Describe how experimental evidence led Dalton, Rutherford, Thompson, Chadwick and Bohr to accurate models of the atom.**
      - **9.2.1.3: Explain the arrangement of the elements on the Periodic Table, including the relationships among column or row.**
      - **9.2.1.4: Explain that isotopes of an element have different numbers of neutrons and that some are unstable and/or radiation.**