

Florida Project Learning Tree Sunshine State Standards linkages for grades 6-8 and 9-12: ENERGY SLEUTHS (#39; pp. 126-130 in old edition *PreK-8 Activity Guide*; pp. 167-173 new edition and #4; pp. 36-41 in *Introductory Handbook for the Secondary Modules*)

Subject Area: Language Arts

Strand: Reading

Standard 2: The student constructs meaning from a wide range of texts.

- **Grades 6-8** – Benchmark: locates, organizes, and interprets written information for a variety of purposes, including classroom research, collaborative decision making, and performing a school or real-world task. [LA.A.2.3.5]
- **Grades 9-12** – Benchmark: locates, gathers, analyzes, and evaluates written information for a variety of purposes, including research projects, real-world tasks, and self-improvement. [LA.A.2.4.4]

Strand: Writing

Standard 2: The student writes to communicate ideas and information effectively.

- **Grades 6-8** – Benchmark: writes text, notes, outlines, comments, and observations that demonstrate comprehension of content and experiences from a variety of media. [LA.B.2.3.1]
- **Grades 6-8** – Benchmark: selects and uses appropriate formats for writing, including narrative, persuasive, and expository formats, according to the intended audience, purpose and occasion. [LA.B.2.3.3]
- **Grades 9-12** – Benchmark: writes text, notes, outlines, comments, and observations that demonstrate comprehension and synthesis of content, processes, and experiences from a variety of media. [LA.B.2.4.1]
- **Grades 9-12** – Benchmark: writes fluently for a variety of occasions, audiences, and purposes, making appropriate choices regarding style, tone, level of detail, and organization. [LA.B.2.4.3]

Strand: Listening, Viewing, and Speaking

Standard 3: The student uses speaking strategies effectively.

- **Grades 6-8** – Benchmark: speaks for various occasions, audiences, and purposes, including conversations, discussions, projects, and informational, persuasive, or technical presentations. [LA.C.3.3.3]
- **Grades 9-12** – Benchmark: uses details, illustrations, analogies, and visual aids to make oral presentations that inform, persuade, or entertain. [LA.C.3.4.3]

Subject Area: Science

Strand: The Nature of Matter

Standard 2: The student understands the basic principles of atomic theory.

- **Grades 6-8** – Benchmark: knows that radiation, light, and heat are forms of energy used to cook food, treat diseases, and provide energy. [SC.A.2.3.3]
- **Grades 9-12** – Benchmark: knows that nuclear energy is released when small, light atoms are fused into heavier ones. [SC.A.2.4.4]

Strand: Energy

Standard 1: The student recognizes that energy may be changed in form with varying efficiency.

- **Grades 6-8** – Benchmark: identifies forms of energy and explains that they can be measured and compared. [SC.B.1.3.1]
- **Grades 9-12** – Benchmark: knows that each source of energy presents advantages and disadvantages to its use in society (e.g., political and economic implications may determine a society's selection of renewable or nonrenewable energy sources). [SC.B.1.4.5]

Standard 2: The student understands the interaction of matter and energy.

- **Grades 6-8** – Benchmark: knows that most of the energy used today is derived from burning stored energy collected by organisms millions of years ago (i.e., nonrenewable fossil fuels). [SC.B.2.3.2]
- **Grades 9-12:** No applicable benchmark