

Florida Project Learning Tree Sunshine State Standards for grades 3-5, 6-8, and 9-12: RENEWABLE OR NOT? (#14; pp. 43-47 in old edition *PreK-8 Activity Guide*; pp. 69-74 new edition; and #1; pp. 26-31 in *Introductory Handbook for the Secondary Modules*)

Subject Area: Language Arts

Strand: Listening, Viewing, and Speaking

Standard 1: The student uses listening strategies effectively.

- **Grades 3-5** – Benchmark: carries on an extended conversation with a group of friends. [LA.C.1.2.3]
- **Grades 3-5** – Benchmark: responds to speakers by asking questions, making contributions, and paraphrasing what is said. [LA.C.1.2.5]
- **Grades 6-8** – Benchmark: uses responsive listening skills, including paraphrasing, summarizing, and asking questions for elaboration and clarification. [LA.C.1.3.4]
- **Grades 9-12:** No applicable benchmark

Standard 3: The student uses speaking strategies effectively.

- **Grades 3-5** – Benchmark: asks questions and makes comments and observations to clarify understanding of content, processes, and experiences. [LA.C.3.2.2]
- **Grades 3-5** – Benchmark: speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations. [LA.C.3.2.3]
- **Grades 3-5** – Benchmark: participates as a contributor and occasionally acts as a leader in a group discussion. [LA.C.3.2.5]
- **Grades 6-8** – Benchmark: asks questions and makes comments and observations that reflect understanding and application of content, processes, and experiences. [LA.C.3.3.2]
- **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: selects and uses a variety of speaking strategies to clarify meaning and to reflect understanding, interpretation, application, and evaluation of content, processes, or experiences, including asking relevant questions when necessary, making appropriate and meaningful comments, and making insightful observations. [LA.C.3.4.2]
- **Grades 9-12** – Benchmark: develops and sustains a line of argument and provides appropriate support. [LA.C.3.4.5]

Subject Area: Science

Strand: Energy

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

- **Grades 3-5** – Benchmark: recognizes the costs and risks to society and the environment posed by the use of nonrenewable energy. [SC.B.2.2.2]
- **Grades 6-8** and **Grades 9-12:** No applicable benchmarks

Strand: Processes that Shape the Earth

Standard 2: The student understands the need for protection of the natural systems on Earth.

- **Grades 3-5** – Benchmark: knows that using, recycling, and reducing the use of natural resources improve and protect the quality of life. [SC.D.2.2.1]
- **Grades 6-8** – Benchmark: knows the positive and negative consequences of human action on the Earth's systems. [SC.D.2.3.2]
- **Grades 9-12:** No applicable benchmark

Strand: How Living Things Interact with Their Environment

Standard 2: The student understands the consequences of using limited natural resources.

- **Grades 3-5:** No applicable benchmark
- **Grades 6-8** – Benchmark: knows that some resources are renewable and others are nonrenewable. [SC.G.2.3.1]
- **Grades 6-8** – Benchmark: knows that all biotic and abiotic factors are interrelated and that if one factor is changed or removed, it impacts the availability of other resources within the system. [SC.G.2.3.2]
- **Grades 6-8** – Benchmark: knows that a brief change in the limited resources of an ecosystem may alter the size of a population or the average size of individual organisms and that long-term change may result in the elimination of animal and plant populations inhabiting the Earth. [SC.G.2.3.3]
- **Grades 6-8** – Benchmark: understands that humans are a part of an ecosystem and their activities may deliberately or inadvertently alter the equilibrium in ecosystems. [SC.G.2.3.4]
- **Grades 9-12** – Benchmark: knows the ways in which humans today are placing their environmental support systems at risk (e.g., rapid human population growth, environmental degradation, and resource depletion). [SC.G.2.4.6]

Strand: The Nature of Science

Standard 1: The student uses the scientific processes and habits of mind to solve problems.

- **Grades 3-5** – Benchmark: knows that a model of something is different from the real thing, but can be used to learn something about the real thing. [SC.H.1.2.5]
- **Grades 6-8** and **Grades 9-12:** No applicable benchmarks

Subject Area: Social Studies

Strand: People, Places, and Environments (Geography)

Standard 2: The student understands the interactions of people and the physical environment.

- **Grades 3-5** – Benchmark: understands how human activity affects the physical environment. [SS.B.2.2.3]
- **Grades 3-5** – Benchmark: understands how factors such as population growth, human migration, improved methods of transportation and communication, and economic development affect the use and conservation of natural resources. [SS.B.2.2.4]
- **Grades 6-8:** No applicable benchmark
- **Grades 9-12** – Benchmark: understands the global impact of human changes in the physical environment. [SS.B.2.4.4]

Strand: Economics

Standard 1: The student understands how scarcity requires individuals and institutions to make choices about how to use resources.

- **Grades 3-5** – Benchmark: understands that scarcity of resources requires choices on many levels, from the individual to societal. [SS.D.1.2.2]
- **Grades 6-8** and **Grades 9-12:** No applicable benchmarks.