

Activity 2: May the Source Be With You for grades 3-8 with K-2 variation (pp. 32-35 in Energy & Society Kit)

Subject Area: Language Arts

Strand: Reading

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Reads text and determines the main idea or essential message, identifies relevant supporting details and facts, and arranges events in chronological order. [LA.A.2.2.1]
- **Grades 3-5:** Reads and organizes information for a variety of purposes, including making a report, conducting interviews, taking a test, and performing an authentic task. [LA.A.2.2.5]
- **Grades 3-5:** Recognizes the use of comparison and contrast in a text. [LA.A.2.2.7]
- **Grades 6-8:** Determines the main idea or essential message in a text and identifies relevant details and facts and patterns of organization. [LA.A.2.3.1]
- **Grades 6-8:** Recognizes logical, ethical, and emotional appeals in texts. [LA.A.2.3.3]
- **Grades 6-8:** 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 6-8:** Uses a variety of reference materials, including indexes, magazines, newspapers, journals, and tools including card catalogs and computer catalogs to gather information for research topics. [LA.A.2.3.6]

Strand: Writing

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Writes notes, comments, and observations that reflect comprehension of content and experiences from a variety of media. [LA.B.2.2.1]
- **Grades 3-5:** Writes for a variety of occasions, audiences, and purposes. [LA.B.2.2.3]
- **Grades 3-5:** Uses electronic technology, including word-processing software and electronic encyclopedias, to create, revise, retrieve, and verify information. [LA.B.2.2.4]
- **Grades 3-5:** Creates narratives in which ideas, details, and events are in logical order and are relevant to the story line. [LA.B.2.2.5]*
- **Grades 3-5:** Creates expository responses in which ideas and details follow an organizational pattern and are relevant to the purpose. [LA.B.2.2.6]
- **Grades 6-8:** 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:** 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 6-8:** Uses electronic technology including databases and software to gather information and communicate new knowledge. [LA.B.2.3.4]

Strand: Listening, Viewing, and Speaking

Standard 1: The student uses listening strategies effectively.

Benchmarks:

- **Grades K-2:** Listens for a variety of informational purposes, including curiosity, pleasure, getting directions, performing tasks, solving problems, and following rules. [LA.C.1.1.1]
- **Grades 3-5:** Listens and responds to a variety of oral presentations, such as stories, poems, skits, songs, personal accounts, and informational speeches. [LA.C.1.2.1]
- **Grades 3-5:** Responds to speakers by asking questions, making contributions, and paraphrasing what is said. [LA.C.1.2.5]
- **Grades 6-8:** Listens and uses information gained for a variety of purposes, such as gaining information from interview, following directions, and pursuing a personal interest. [LA.C.1.3.1]
- **Grades 6-8:** Uses responsive listening skills, including paraphrasing, summarizing, and asking questions for elaboration and clarification. [LA.C.1.3.4]*

Standard 3: The student uses speaking strategies effectively.

Benchmarks

- **Grades K-2:** Speaks clearly and at a volume audible in large-or small-group settings. [LA.C.3.1.1]
- **Grades K-2:** Uses eye contact and simple gestures to enhance delivery. [LA.C.3.1.4]
- **Grades 3-5:** Speaks clearly at an understandable rate and uses appropriate volume. [LA.C.3.2.1]
- **Grades 3-5:** Speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations. [LA.C.3.2.3]
- **Grades 3-5:** Uses eye contact and gestures that engage the audience. [LA.C.3.2.4]
- **Grades 3-5:** Participates as a contributor and occasionally acts as a leader in a group discussion. [LA.C.3.2.5]
- **Grades 6-8:** Determines main concept, supporting details, stereotypes, bias, and persuasion techniques in a nonprint message. [LA.C.2.3.1]
- **Grades 6-8:** 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:** Speaks for various occasions, audiences, and purposes, including conversations, discussions, projects, and informational, persuasive, or technical presentations. [LA.C.3.3.3]

Strand: Language

Standard 2: The student understands the power of language.

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Understands that word choices can shape reactions, perceptions, and beliefs. [LA.D.2.2.1]
- **Grades 6-8:** Selects language that shapes reactions, perceptions, and beliefs. [LA.D.2.3.1]
- **Grades 6-8:** Understands how the multiple media tools of graphics, pictures, color, motion, and music can enhance communication in television, film, radio, and advertising. [LA.D.2.3.4]*
- **Grades 6-8:** Incorporates audiovisual aides in presentations. [LA.D.2.3.4]

Strand 3: Literature

Standard 2: The student responds critically to fiction, nonfiction, poetry, and drama.

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Recognizes cause-and-effect relationships in literary texts. [LA.E.2.2.1]
- **Grades 3-5:** Responds to a work of literature by explaining how the motives of the characters or the causes of events compare with those of his or her own life. [LA.E.2.2.3]*
- **Grades 3-5:** Identifies the major theme in a story or nonfiction text. [LA.E.2.2.4]
- **Grades 3-5:** Forms his or her own ideas about what has been read in a literary text and uses specific information from the text to support those ideas. [LA.E.2.2.5]
- **Grades 6-8:** No applicable benchmarks.

Subject Area: Social Studies

Strand: Time, Continuity, and Change (History)

Standard 1: The student understands historical chronology and the historical perspective.

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** No applicable benchmarks.
- **Grades 6-8:** Understands how patterns, chronology, sequencing (including cause and effect), and the identification of historical periods are influenced by frames of reference. [SS.A.1.3.1] *
- **Grades 6-8:** Knows how to impose temporal structure on historical narratives. [SS.A.1.3.3] *

Strand: People, Places, and Environments (Geography)

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

Benchmarks:

- **Grades K-2:** Knows the role that resources play in our daily lives. [SS.B.2.1.4]
- **Grades 3-5:** Understands how the physical environment supports and constrains human activities. [SS.B.2.2.2]
- **Grades 3-5:** Understands how human activity affects the physical environment. [SS.B.2.2.3]
- **Grades 3-5:** 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:** Understands how cultures differ in their use of similar environments and resources. [SS.B.2.3.3] *
- **Grades 6-8:** Understands the environmental consequences of people changing the physical environment in various world locations. [SS.B.2.3.6]
- **Grades 6-8:** Knows world patterns of resource distribution and utilization. [SS.B.2.3.8]
- **Grades 6-8:** Understands how the interaction between physical and human systems affects current conditions on Earth. [SS.B.2.3.9]

Stand: Production, Distribution, and Consumption (Economics)

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Understands that all decisions involve opportunity costs and that making effective decisions involves considering the costs and the benefits associated with alternative choices. [SS.D.1.2.1]
- **Grades 3-5:** Understands that scarcity of resources requires choices on many levels, from the individual to societal. [SS.D.1.2.2]
- **Grades 6-8:** Understands the variety of factors necessary to consider when making wise consumer decisions. [SS.D.1.3.3]

Subject Area: Science

Strand: The Nature of Matter

Standard 1: The student understands that all matter has observable, measurable properties.

Benchmarks:

- **Grades K-2:** Knows that objects can be described, classified, and compared by their composition (e.g., wood or metal) and their physical properties (e.g., color, size, and shape). [SC.A.1.1.1]
- **Grades 3-5:** No applicable benchmarks.
- **Grades 6-8:** No applicable benchmarks.

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Knows that materials may be made of parts too small to be seen without magnification. [SC.A.2.2.1]
- **Grades 6-8:** Knows the general properties of the atom (a massive nucleus of neutral neutrons and positive protons surrounded by a cloud of negative electrons) and accepts that single atoms are not visible. [SC.A.2.3.2]
- **Grades 6-8:** Knows that radiation, light, and heat are forms of energy used to cook food, treat disease, and provide energy. [SC.A.2.3.3]

Strand: Energy

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Recognizes the costs and risks to society and the environment posed by the use of nonrenewable energy. [SC.B.2.2.2]
- **Grades 3-5:** Knows that the limited supply of usable energy sources (e.g., fuels such as coal or oil) places great significance on the development of renewable energy sources. [SC.B.2.2.3]
- **Grades 6-8:** 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]

Strand: Processes that Shape the Earth

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Knows that reusing, recycling, and reducing the use of natural resources improve and protect the quality of life. [SC.D.2.2.1]
- **Grades 6-8:** Knows the positive and negative consequences of human action on Earth's system. [SC.D.2.3.2]

Strand: Earth and Space

Standard 1: The student understands the interaction and organization in the Solar System and the Universe and how this affects life on Earth.

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Knows that the Sun is a star and that its energy can be captured or concentrated to generate heat and light for work on Earth. [SC.E.1.2.3]
- **Grades 6-8:** No applicable benchmarks.

Strand: How Living Things Interact With Their Environment

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** No applicable benchmarks.
- **Grades 6-8:** Knows that some resources are renewable and others are nonrenewable. [SC.G.2.3.1]
- **Grades 6-8:** Understands that humans are part of an ecosystem and their activities may deliberately or inadvertently alter the equilibrium in ecosystems. [SC.G.2.3.4]

Strand: The Nature of Science

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

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions. [SC.H.1.2.3]
- **Grades 6-8:** No applicable benchmarks.

Standard 3: The student understands that science, technology, and society are interwoven and interdependent.

Benchmarks:

- **Grades K-2:** No applicable benchmarks.
- **Grades 3-5:** Knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas. [SC.H.3.2.4]
- **Grades 6-8:** Knows that no matter who does science and mathematics or invents things, or when or where they do it, the knowledge and technology that result can eventually become available to everyone. [SC.H.3.3.6]

Note – Benchmarks followed by a star (*) are only met when Integrating Music and Dance, Enrichment, and/or Assessment activities are conducted.