

**Florida Project Learning Tree Sunshine State Standards linkages for grades PreK-2, 3-5, and 6-8: LIVING WITH FIRE (#81; pp. 311-315 in old edition *PreK-8 Activity Guide*; pp. 350-354 new edition)**

**Subject Area: Language Arts**

**Strand: Reading**

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5 – Benchmark:** selects and uses a variety of appropriate reference materials, including multiple representations of information, such as maps, charts and photos, to gather information for research projects. [LA.A.2.2.8]
- **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]

**Strand: Writing**

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5 – Benchmark:** writes notes, comments, and observations that reflect comprehension of content and experiences from a variety of media. [LA.B.2.2.1]
- **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]

**Strand: Listening, Viewing, and Speaking**

**Standard 1:** The student uses listening strategies effectively.

- **Grades PreK-2 – Benchmark:** 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 – Benchmark:** listens and responds to a variety of oral presentations, such as stories, poems, skits, songs, personal accounts, informational speeches. [LA.C.1.2.1]
- **Grades 3-5 – Benchmark:** listens attentively to the speaker, including making eye contact and facing the speaker. [LA.C.1.2.4]
- **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:** listens and uses information gained for a variety of purposes, such as gaining information from interviews, following directions, and pursuing a personal interest. [LA.C.1.3.1]

- **Grades 6-8** – Benchmark: 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.

- **Grades PreK-2 and Grades 3-5:** No applicable benchmarks
- **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]

## **Subject Area: Mathematics**

### **Strand: Data Analysis and Probability**

**Standard 1:** The student understands and uses the tools of data analysis for managing information.

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts. [MA.E.1.2.1]
- **Grades 3-5** – Benchmark: analyzes real-world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers. [MA.E.1.2.3]
- **Grades 6-8** – Benchmark: collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, bar graphs, to determine how different ways of presenting data can lead to different interpretations. [MA.E.1.3.1]

**Standard 3:** The student uses statistical methods to make inferences and valid arguments about real-world situations.

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: uses statistical data about life situations to make predictions and justifies reasoning. [MA.E.3.2.2]
- **Grades 6-8:** No applicable benchmark

## **Subject Area: Science**

### **Strand: The Nature of Matter**

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

- **Grades PreK-2** – Benchmark: verifies that things can be done to materials to change some of their physical properties (e.g., cutting, heating, and freezing), but not all materials respond the same way (e.g., heating causes water to boil and sugar to melt). [SC.A.1.1.3]

- **Grades 3-5** – Benchmark: knows that different materials are made by physically combining substances and that different objects can be made by combining different materials. [SC.A.1.2.4]
- **Grades 6-8** – Benchmark: knows the difference between a physical change in a substance (i.e., altering the shape, form, volume, or density,) and a chemical change (i.e., producing new substances with different characteristics). [SC.A.1.3.5]

### **Strand: Energy**

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

- **Grades PreK-2** – Benchmark: knows that heat can be produced in many ways (e.g., by burning and rubbing). [SC.B.1.1.4]
- **Grades 3-5** – Benchmark: knows ways that heat can move from one object to another. [SC.B.1.2.6]
- **Grades 6-8** – Benchmark: knows that energy conversions are never 100% efficient (i.e., some energy is transformed to heat and is unavailable for further useful work). [SC.B.1.3.4]

### **Strand: Processes that Shape the Earth**

**Standard 1:** The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: knows that some changes in the Earth’s surface are due to slow processes and some changes are due to rapid processes. [SC.D.1.2.5]
- **Grades 6-8:** No applicable benchmark

### **Strand: The Nature of Science**

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results. [SC.H.1.2.2]
- **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** – Benchmark: knows that a change in one or more variables may alter the outcome of an investigation. [SC.H.1.3.5]

**Standard 2:** The student understands that most natural events occur in comprehensible, consistent patterns.

- **Grades PreK-2** – Benchmark: knows that most natural events occur in patterns. [SC.H.2.1.1]
- **Grades 3-5** – Benchmark: knows that natural events are often predictable and logical. [SC.H.2.2.1]

- **Grades 6-8** – Benchmark: recognizes that patterns exist within and across systems. [SC.H.2.3.1]

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: knows that data are collected and interpreted in order to explain an event or concept. [SC.H.3.2.2]
- **Grades 3-5** – Benchmark: 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** – Benchmark: knows that technological design should require taking into account constraints such as natural laws, the properties of the materials used, and economic, political, social, ethical, and aesthetic value. [SC.H.3.3.4]

## **Subject Area: Social Studies**

### **Strand: People, Places, and Environments (Geography)**

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: understands how the physical environment supports and constrains human activities. [SS.B.2.2.2]
- **Grades 3-5** – Benchmark: understands how human activity affects the physical environment. [SS.B.2.2.3]
- **Grades 6-8** – Benchmark: understands how cultures differ in their use of similar environments and resources. [SS.B.2.3.3]

### **Strand: Economics**

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: 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 6-8:** No applicable benchmark

**Standard 2:** The student understands the characteristics of different economic systems and institutions.

- **Grades PreK-2** – Benchmark: understands that most people work in jobs in which they produce a few special goods or services. [SS.D.2.1.1]
- **Grades 3-5** and **Grades 6-8:** No applicable benchmarks

## **Subject Area: The Arts – Theatre**

### **Strand: Skills and Techniques**

**Standard 1:** The student acts by developing, communicating, and sustaining characters in improvisation and formal or informal productions.

- **Grades PreK-2** – Benchmark: creates imagined characters, relationships, and environments, using basic acting skills (e.g., sensory recall, concentration, pantomime, and vocal improvisation). {TH.A.1.1.1}
- **Grades PreK-2** – Benchmark: creates, individually and in groups, animate and inanimate objects through the movement of the human body (e.g., pantomimes living and non-living objects such as rocks, trees, and celestial objects). [TH.A.1.1.2]
- **Grades 3-5** and **Grades 6-8:** No applicable benchmarks

## **Subject Area: Health & Physical Education – Health Education**

### **Strand: Responsible Health Behavior**

**Standard 1:** The student knows health-enhancing behaviors and how to reduce health risks.

- **Grades PreK-2** – Benchmark: identifies safe and unsafe behaviors. [HE.B.1.1.2]
- **Grades 3-5** – Benchmark: compares behaviors that are safe to those that are risky or harmful. [HE.B.1.2.2]
- **Grades 6-8** – Benchmark: understands the short-term and long-term consequences of safe, risky, and harmful behaviors. [HE.B.1.3.2]

## **Subject Area: Health & Physical Education – Physical Education**

### **Strand: Physical Education Literacy**

**Standard 1:** The student demonstrates competency in many movement forms and proficiency in a few forms of physical activity.

- **Grades PreK-2** – Benchmark: chases, flees, and dodges to avoid or catch others and maneuver around obstacles. [PE.A.1.1.4]
- **Grades PreK-2** – Benchmark: demonstrates basic locomotor skills (e.g., hop, walk, run, jump, leap, gallop, skip, and slide). [PE.A.1.1.7]
- **Grades 3-5** and **Grades 6-8:** No applicable benchmarks

### **Strand: Responsible Physical Activity Behaviors**

**Standard 2:** The student demonstrates responsible personal and social behavior in physical activity.

- **Grades PreK-2** – Benchmark: understands the importance of being aware of one's surroundings and acting in a safe manner while participating in physical activity settings. [PE.B.2.1.1]
- **Grades PreK-2** – Benchmark: follows directions given by instructor or group leader. [PE.B.2.1.2]