

Florida Project Learning Tree Sunshine State Standards linkages for grades PreK-2, 3-5, 6-8, and 9-12: TREES IN TROUBLE (#77; pp. 293-298 in old edition *PreK-8 Activity Guide*; pp. 332-336 new edition)

Subject Area: Language Arts

Strand: Writing

Standard 1: The student uses writing processes effectively.

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5 – Benchmark:** prepares for writing by recording thoughts, focusing on a central idea, grouping related ideas, and identifying the purpose for writing. [LA.B.1.2.1]
- **Grades 3-5 – Benchmark:** drafts and revises writing in cursive that: focuses on the topic; has a logical organizational pattern, including a beginning, middle, conclusion, and transitional devices; has ample development of supporting ideas; demonstrates a sense of completeness or wholeness; demonstrates a command of language including precision in word choice; generally has correct subject/verb agreement; generally has correct verb and noun forms; with few exceptions, has sentences that are complete, except when fragments are used purposefully; uses a variety of sentence structures; and generally follows the conventions of punctuation, capitalization, and spelling. [LA.B.1.2.2]
- **Grades 3-5 – Benchmark:** produces final documents that have been edited for: correct spelling; correct use of punctuation, including commas in series, dates, and addresses, and beginning and ending quotation marks; correct capitalization of proper nouns; correct paragraph indentation; correct usage of subject/verb agreement, verb and noun forms, and sentence structure; and correct formatting according to instructions. [LA.B.1.2.3]
- **Grades 6-8 – Benchmark:** organizes information before writing according to the type and purpose of writing. [LA.B.1.3.1]
- **Grades 6-8 – Benchmark:** drafts and revises writing that: is focused, purposeful, and reflects insight into the writing situation; conveys a sense of completeness and wholeness with adherence to the main idea; has an organizational pattern that provides for a logical progression of ideas; has support that is substantial, specific, relevant, concrete, and/or illustrative; demonstrates a commitment to and an involvement with the subject; has clarity in presentation of ideas; uses creative writing strategies appropriate to the purpose of the paper; demonstrates a command of language (word choice) with freshness of expression; has varied sentence structure and sentences that are complete except when fragments are used purposefully; and has few, if any, convention errors in mechanics, usage, and punctuation. [LA.B.1.3.2]

- **Grades 6-8** – Benchmark: produces final documents that have been edited for: correct spelling; correct punctuation, including commas, colons, and semicolons; correct capitalization; effective sentence structure; correct common usage, including subject/verb agreement, common noun/pronoun agreement, common possessive forms, and with a variety of sentence structure, including parallel structure; and correct formatting. [LA.B.1.3.3]
- **Grades 9-12** – Benchmark: selects and uses appropriate prewriting strategies, such as brainstorming, graphic organizers, and outlines. [LA.B.1.4.1]
- **Grades 9-12** – Benchmark: drafts and revises writing that: is focused, purposeful, and reflects insight into the writing situation; has an organizational pattern that provides for a logical progression of ideas; has effective use of transitional devices that contribute to a sense of completeness; has support that is substantial, specific, relevant, and concrete; demonstrates a commitment to and involvement with the subject; uses creative writing strategies as appropriate to the purposes of the paper; demonstrates a mature command of language with freshness of expression; has varied sentence structure; has few, if any, convention errors in mechanics, usage, punctuation, and spelling. [LA.B.1.4.2]
- **Grades 9-12** – Benchmark: produces final documents that have been edited for: correct spelling; correct punctuation, including commas, colons, and common use of semicolons; correct capitalization; correct sentence formation; correct instances of possessives, subject/verb agreement, instances of noun/pronoun agreement, and the intentional use of fragments for effect; and correct formatting that appeals to readers, including appropriate use of a variety of graphics, tables, charts, and illustrations in both standard and innovative forms. [LA.B.1.4.3]

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]
- **Grades 9-12:** No applicable benchmark

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, Grades 6-8, and Grades 9-12:** No applicable benchmarks

Subject Area: Mathematics

Strand: Measurement

Standard 4: The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.

- **Grades PreK-2** – Benchmark: selects and uses appropriate instruments, such as scales, rulers, clocks, and technology to measure within customary or metric systems. [MA.B.4.1.2]
- **Grades 3-5** – Benchmark: selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations. [MA.B.4.2.2]
- **Grades 6-8** – Benchmark: selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation. [MA.B.4.3.2]
- **Grades 9-12** – Benchmark: selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation. [MA.B.4.4.2]

Strand: Data Analysis and Probability

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

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: represents and applies a variety of strategies and geometric properties and formulas for two- and three-dimensional shapes to solve real-world and mathematical problems. [MA.E.3.2.1]
- **Grades 6-8** – Benchmark: formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, and mode) and table, graphs, and charts. [MA.E.3.3.1]
- **Grades 9-12** – Benchmark: designs and performs real-world statistical experiments that involve more than one variable, then analyzes results and reports findings. [MA.E.3.4.1]

Subject Area: Science

Strand: The Nature of Matter

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

- **Grades PreK-2** – Benchmark: 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 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, Grades 6-8, and Grades 9-12:** No applicable benchmarks

Strand: Processes of Life

Standard 1: The student describes patterns of structure and function in living things.

- **Grades PreK-2** – Benchmark: knows the basic needs of all living things. [SC.F.1.1.1]
- **Grades PreK-2** – Benchmark: compares and describes the structural characteristics of plants and animals. [SC.F.1.1.5]
- **Grades 3-5:** No applicable benchmark
- **Grades 6-8** – Benchmark: knows that behavior is a response to the environment and influences growth, development, maintenance, and reproduction. [SC.F.1.3.7]
- **Grades 9-12** – Benchmark: knows that organisms respond to internal and external stimuli. [SC.F.1.4.7]

Strand: How Living Things Interact with Their Environment

Standard 1: The student understands the competitive, interdependent, cyclic nature of living things in the environment.

- **Grades PreK-2:** No applicable benchmark
- **Grades 3-5** – Benchmark: knows ways that plants, animals, and protists interact. [SC.G.1.2.1]
- **Grades 6-8** – Benchmark: knows that biological adaptations include changes in structures, behaviors, or physiology that enhance reproductive success in a particular environment. [SC.G.1.3.2]
- **Grades 9-12:** 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** – Benchmark: knows that people use scientific processes including hypotheses, making inferences, and recording and communicating data when exploring the natural world. [SC.H.1.1.4]
- **Grades PreK-2** – Benchmark: uses the senses, tools, and instruments to obtain information from his or her surroundings. [SC.H.1.1.5]
- **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 to compare and contrast observations and results is an essential skill in science. [SC.H.1.2.4]
- **Grades 3-5** – Benchmark: knows that a model of something is different from the real things, 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]
- **Grades 9-12**: No applicable benchmark

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

- **Grades PreK-2** – Benchmark: knows that scientists and technologists use a variety of tools (e.g., thermometers, magnifiers, rulers, and scales) to obtain information in more detail and to make work easier. [SC.H.3.1.1]
- **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**: No applicable benchmark
- **Grades 9-12** – Benchmark: knows that scientists can bring information, insights, and analytical skills to matters of public concern and help people understand the possible causes and effects of events. [SC.H..3.4.3]

Subject Area: Health Education & Physical Education – Health Education

Strand: Health Literacy

Standard 1: The student comprehends concepts related to health promotion and disease prevention.

- **Grades PreK-2** – Benchmark: identifies common health problems of children and possible ways to prevent these problems. [HE.A.1.1.5]
- **Grades 3-5** – Benchmark: knows the most common health problems of children. [HE.A.1.2.6]
- **Grades 3-5** – Benchmark: knows how childhood injuries and illnesses can be prevented and treated. [HE.A.1.2.8]
- **Grades 6-8** – Benchmark: knows how lifestyle, pathogens (germs), family history, and other risk factors are related to the cause or prevention of disease and other health problems. [HE.A.1.3.8]
- **Grades 9-12**: No applicable benchmark