

Florida Project Learning Tree Sunshine State Standards linkages for grades 3-5, 6-8, and 9-12: NOTHING SUCCEEDS LIKE SUCCESSION (#80; pp. 306-310 in old edition *PreK-8 Activity Guide*; pp. 345-349 new edition)

Subject Area: Language Arts

Strand: Reading

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

- **Grades 3-5** – Benchmark: 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 6-8** – Benchmark: 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 9-12:** No applicable benchmark

Strand: Writing

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

- **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** – 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]

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

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

Subject Area: Science**Strand: The Nature of Matter**

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

- **Grades 3-5** – Benchmark: determines that the properties of materials (e.g., density and volume) can be compared and measured (e.g., using rulers, balances, and thermometers). [SC.A.1.2.1]
- **Grades 6-8 and Grades 9-12:** No applicable benchmarks

Strand: Energy

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

- **Grades 3-5** – Benchmark: knows how to trace the flow of energy in a system (e.g., as in an ecosystem). [SC.B.1.2.1]
- **Grades 6-8:** No applicable benchmark
- **Grades 9-12** – Benchmark: understands how knowledge of energy is fundamental to all the scientific disciplines (e.g., the energy required for biological processes in living organisms and the energy required for the building, erosion, and rebuilding of the Earth). [SC.B.1.4.1]

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 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** – Benchmark: knows that over the whole Earth, organisms are growing, dying, and decaying as new organisms are produced by the old ones. [SC.D.1.3.2]
- **Grades 9-12:** No applicable benchmark

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 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 6-8** – Benchmark: knows that the interactions of organisms with each other and with the nonliving parts of their environments result in the flow of energy and the cycling of matter throughout the system. [SC.G.1.3.4]
- **Grades 9-12** – Benchmark: knows of the great diversity and interdependence of living things. [SC.G.1.4.1]
- **Grades 9-12** – Benchmark: understands how the flow of energy through an ecosystem made up of producers, consumers, and decomposers carries out the processes of life and that some energy dissipates as heat and is not recycled. [SC.G.1.4.2]

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

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

- **Grades 3-5:** No applicable benchmark
- **Grades 6-8** – Benchmark: recognizes that patterns exist within and across systems. [SC.H.2.3.1]
- **Grades 9-12:** No applicable benchmark

Subject Area: Social Studies

Strand: People, Places, and Environments (Geography)

Standard 1: The student understands the world in spatial terms.

- **Grades 3-5** – Benchmark: uses maps, globes, charts, graphs, and other geographic tools including map keys and symbols to gather and interpret data and to draw conclusions about physical patterns. [SS.B.1.2.1]
- **Grades 6-8** – Benchmark: uses various map forms (including thematic maps) and other geographic representations, tools, and technologies to acquire, process, and report geographic information including patterns and processes of migration and diffusion. [SS.B.1.3.1]

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

Subject Area: The Arts – Visual Arts

Strand: Skills and Techniques

Standard 1: The student understands and applies media, techniques, and processes.

- **Grades 3-5** and **Grades 6-8:** No applicable benchmark
- **Grades 9-12** – Benchmark: uses two-dimensional and three-dimensional media, techniques, tools, and processes to communicate an idea or concept based on research, environment, personal experience, observation, or imagination. [VA.A.1.4.1]

Strand: Creation and Communication

Standard 1: The student creates and communicates a range of subject matter, symbols, and ideas using knowledge of structures and functions of visual arts.

- **Grades 3-5** – Benchmark: understands that subject matter used to create unique works of art can come from personal experience, observation, imagination, and themes. [VA.B.1.2.1]
- **Grades 6-9** – Benchmark: knows how different subjects, themes, and symbols (through context, value, and aesthetics) convey intended meanings or ideas in works of art. [VA.B.1.3.1]
- **Grades 9-12:** No applicable benchmark