

Florida Project Learning Tree Sunshine State Standards linkages for grades PreK-2, 3-5, and 6-8: HOW PLANTS GROW (#41; pp. 135-136 in old edition *PreK-8 Activity Guide*; pp. 179-181 new edition)

Subject Area: Mathematics

Strand: Measurement

Standard 2: The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).

- **Grades PreK-2** – Benchmark: uses direct (measured) and indirect (not measured) comparisons to order objects according to some measurable characteristics (length, weight). [MA.B.2.1.1]
- **Grades 3-5** – Benchmark: uses direct (measured) and indirect (not measured) measures to calculate and compare measurable characteristics. [MA.B.2.2.1]
- **Grades 6-8** – Benchmark: uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units. [MA.B.2.3.1]

Strand: Data Analysis and Probability

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

- **Grades PreK-2** – Benchmark: displays solutions to problems by generating, collecting, organizing, and analyzing data using simple graphs and charts. [MA.E.1.1.1]
- **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]

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 3-5 and Grades 6-8:** 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 3-5** and **Grades 6-8:** No applicable benchmarks

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 that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment. [SC.G.1.2.3]
- **Grades 3-5** – Benchmark: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem. [SC.G.1.2.7]
- **Grades 6-8:** No applicable benchmark

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

- **Grades PreK-2** – Benchmark: knows that if living things do not get food, water, shelter, and space, they will die. [SC.G.2.1.1]
- **Grades 3-5** and **Grades 6-8:** No applicable benchmarks

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 6-8:** No applicable benchmark