

Florida Project Learning Tree Sunshine State Standards linkages for grades 3-5 and 6-8: GERMINATING GIANTS (#66; pp. 234-238 in old edition *PreK-8 Activity Guide*; pp. 279-283 new edition)

Subject Area: Mathematics

Strand: Measurement

Standard 1: The student measures quantities in the real world and uses the measures to solve problems.

- **Grades 3-5** – Benchmark: solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles. [MA.B.1.2.2]
- **Grades 6-8** – Benchmark: uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids and cylinders. [MA.B.1.3.1]

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

- **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]

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]

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** – Benchmark: identifies various ways in which substances differ (e.g., mass, volume, shape, density, texture, and reaction to temperature and light). [SC.A.1.3.1]

Strand: Processes of Life

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

- **Grades 3-5** – Benchmark: knows that living things are different but share similar structures. [SC.F.1.2.3]
- **Grades 6-8** – Benchmark: understands that living things are composed of major systems that function in reproduction, growth, maintenance, and regulation. [SC.F.1.3.1]

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 that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment. [SC.G.1.2.2]
- **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]