

Florida Project Learning Tree Sunshine State Standards linkages for grades 3-5 and 6-8: AIR PLANTS (#28; pp. 85-87 in old edition *PreK-8 Activity Guide*; pp. 120-122 new edition)

Subject Area: Mathematics

Strand: Number Sense, Concepts, and Operations

Standard 3: The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.

- **Grades 3-5** – Benchmark: adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. [MA.A.3.2.3]
- **Grades 6-8** – Benchmark: adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. [MA.A.3.3.3]

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 3: The student estimates measurements in real-world problem situations.

- **Grades 3-5** – Benchmark: solves real-world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume. [MA.B.3.2.1]
- **Grades 6-8** – Benchmark: solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area, and volume, in either customary or metric units. [MA.B.3.3.1]

Subject Area: Science

Strand: Energy

Standard 2: The student understands the interaction of matter and energy.

- **Grades 3-5** – Benchmark: knows that some source of energy is needed for organisms to stay alive and grow. [SC.B.2.2.1]
- **Grades 6-8:** 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 3-5** – Benchmark: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction. [SC.G.1.2.3]
- **Grades 6-8** – Benchmark: knows that life is maintained by a continuous input of energy from the sun and by the recycling of the atoms that make up the molecules of living organisms. [SC.G.1.3.5]