

Food, Land, and People
Correlation to NCSCOS for Science 2005
Grades K-2

GRADE K

Goal 1: The learner will make observations and build an understanding of similarities and differences in animals.

Objective 1.02 Observe and describe the similarities and differences in animals (structure, growth, changes, movement)

*FLP Lesson – **From Apple cores to Healthy Soil** (2-8): Simple version has students create compost from food waste. Exploring the compost results in observations of similarities and differences in soil microorganisms such as centipedes, millipedes, roly-polys, and earthworms. Things such as centipedes move with great speed and have one pair of legs per body segment while millipedes move slower with two leg pairs per body segment. Roly-polys have 14 legs and roll into a ball for protection and earthworms have no legs but still can move.*

Goal 2: The learner will build an understanding of weather concepts.

Objective 2.01 Observe and report daily weather changes throughout the year.

Objective 2.04 Observe and determine the effects of weather on human activities.

*FLP Lesson – **Seasons Through the Year** (PreK-6): Students learn the seasons in “cycle” order by identifying the season in which their birthdays occur. They explore the characteristics of the four seasons and create a class book together.*

GRADE 1

Goal 1 The learner will conduct investigations and make observations to build an understanding of the needs of living organisms.

Objective 1.01 Determine the needs of a variety of different plants (air, water, light, space).

*FLP Lesson – **The Plant-n-Me** (PreK-3): A role playing activity where students learn that plants and people have similar needs for survival: air, food, light, and water. Students compare and contrast how plants and people meet these important needs.*

*FLP Lesson – **Seed Surprises** (PreK-3): Sorting activity where students sort seeds by size, shape, and color. Students also identify conditions seeds need for growth and watch seeds sprout. Students identify plant parts and describe their function.*

*FLP Lesson – **We’re Into Pumpkins** (PreK-6): Students learn about pumpkins as fruits and food sources. Together students make predictions, measure, and count the seeds from a pumpkin. Students explore uses of pumpkins in the past and present.*

*FLP Lesson – **Fruits and Veggies** (PreK-4) A fast paced game where students identify various familiar and unfamiliar fruits and vegetables. Students compare and contrast similarities and differences between fruits and other edible plant parts. Students learn the importance of eating fruits and veggies.*

Objective 1.02 Determine the needs of a variety of different animals (air, water, food, shelter).

*FLP Lesson – **Let’s Celebrate** (PreK-4): A class celebration revolving around many varieties of corn and the role of foods in many human celebrations across the globe. Students discuss how food celebrations are similar and different in various countries due to their cultural beliefs and values.*

*FLP Lesson – **Lunchtime Favorites** (PreK-12): Students recognize that human foods come from both plants and animals. By sorting and classifying their food from lunch, students learn the interdependence of plants, animals, and people.*

*FLP Lesson – **Don’t Use It All Up!** (PreK-12): A sponge demonstration where each student soaks up a finite supply of water while identifying one way people use water every day. Students squeeze some water back in the bowl while identifying one way people can use less water every day.*

Objective 1.04 Identify local environments that support the needs of North Carolina plants and animals.

*FLP Lesson – **Your School Ground Through New Eyes** (3-12): Simple version asks students to observe and describe the diversity of plant and animal life found on the school grounds.*

Goal 2 The learner will make observations and use student made rules to build an understanding of solid earth materials.

Objective 2.03 Observe the various components that combine to make soil.

Objective 2.04 Compare the components of soil samples from different places.

*FLP Lesson – **From Apple Cores to Healthy Soil** (2-8): A composting experiment shows how soil organisms, temperature, air, and water are able to decompose food waste and enrich the soil.*

*FLP Lesson – **Perc Through the Pores** (3-6): Simplest version provides an introduction to three soil particles: sand, silt, and clay. Students do the “Shake Jar” experiment to observe the settling of soil particles in a variety of soil samples.*

Goal 3

Objective 2.02 Investigate several ways in which objects can be described, grouped, or classified.

*FLP Lesson – **Schoolground Caretakers** (Pre K- 4): Students observe and collect items on the schoolground and then group the objects according to various categories. Teaches respect for the environment.*

*FLP Lesson – **Banking on Seeds** (3-7): Simplest version has students compare seeds from six winter-type squash and learn how seeds were historically used by various cultures.*

*FLP Lesson – **Tree-mendous** (3-8): Simplest version has students play a fast paced classification game where they sort tree characteristics and tree uses.*

GRADE 2

Goal 2 The learner will observe and conduct investigations to build an understanding of the changes in weather.

Objective 2.06 Observe and record weather changes over time and relate to time of day and time of year.

*FLP Lesson – **Seasons Through the Year** (PreK-6): Students use their birthdays to build awareness of seasonal differences*

Goal 3 The learner will observe and conduct investigations to build an understanding of changes in properties.

Objective 3.06 Observe that a new material is made by combining two or more materials with properties different from original materials.

*FLP Lesson – **Tomatoes to Ketchup, Chickens to Omelettes** (PreK-6): By cutting, sorting, matching, and collaging pictures of raw and processed foods, students build connections between how plants and animals are processed (changed) into food items where the original source may not be obvious.*