

**Augusta Canal National Heritage Area
First Grade Science Program Lesson Plans**

Standards:

GA:

S1CS1. Students will be aware of the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works. a. Raise questions about the world around you and be willing to seek answers to some of the questions by making careful observations (5 senses) and trying things out.

SKCS3. Students will use tools and instruments for observing, measuring, and manipulating objects in scientific activities.

S1L1. Students will investigate the characteristics and basic needs of plants and animals. a. Identify the basic needs of a plant; 1. Air 2. Water 3. Light 4. Nutrients. b. Identify the basic needs of an animal; 1. Air 2. Water 3. Food 4. Shelter c. Identify the parts of a plant—root, stem, leaf, and flower. d. Compare and describe various animals—appearance, motion, growth, basic needs.

SC:

1-1.2 Use tools (including rulers) safely, accurately, and appropriately when gathering specific data.

1-2.1 Recall the basic needs of plants (including air, water, nutrients, space, and light) for energy and growth.

1-2.6 Identify characteristics of plants (including types of stems, roots, leaves, flowers, and seeds) that help them survive in their own distinct environments.

Essential Question(s):

1. What do plants and animals need to survive?
2. What do animals look like, eat, live in, and need to stay alive?
3. What are the physical features of a plant and how is this important for them to stay alive?

Objectives:

Students will be able to explain the basic needs of plants and animals.

SWBAT develop an understanding of plants as living things and their physical features.

SWBAT determine the differences among various animals and describe them including habitat and habits.

Plan for Field Trip:

1. Students will explore the plants and animals living in the Augusta Canal woodland and aquatic habitats as they ride on a Petersburg Boat.
2. Students will explore plants and animals through discovery centers in the Cotton Room classroom,. These activities will include labeling plant parts, observing plant cells through microscopes, observing animal skulls and animal life cycles.
3. Students will participate in an interactive power point presentation on habitat including the basic needs of plants and animals.
4. Students will match animals to their different tracks and hunt for animal pictures as they place appropriate stickers in a habitat picture.
5. Students will answer questions throughout the learning experience to facilitate understanding and reinforce knowledge & standards.
6. Students will participate in pre-visit and post visit activities in the school classroom to reinforce concepts.(activities provided)

Timeline: 9:45 am-1:30 pm

Boat ride: 45 minutes

Discovery Learning Stations (Cotton Room): 10 minutes

Habitat PowerPoint -10 minutes

Animal Track Activity -10 minutes

Canal Critters Hunt: -15 minutes

Materials:

- Copies of “Animal Name” matching and “5 Senses” matching work sheets as pre-visit activities. Augusta Canal Animal Tracks and Canal Critters Scavenger Hunt worksheets with pictures of animals to hide during visit. Leaf Measuring Lab and Venn diagram for post visit activities. Rulers, jiffy scopes, plant and animal displays, computer and power point presentation.

Assessment:

Students will show what they learned by taking 5-10 minutes at the end of the field trip and will complete post visit venn diagram and measuring exercises back in their classrooms. Ongoing assessment will take place throughout the course of the field trip with questions and activities, as well as the results of the worksheets.

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