



THE PETTIT PRESERVE

The Margaret & Luke Pettit Environmental Preserve, Inc.

Kindergarten

How Do You Get Soil from Rocks? /Animal Rescue Hike

Students will hike the .75-mile trail and cross the swinging bridge while participating in a representational display of Georgia's fauna. They will have to use scientific inquiry as they listen to poems describing their fauna to distinguish differences between them. They will also explore the characteristics of earth materials to determine if they are living or non-living as well as use scientific tools to classify earth materials. **Standards: SKE2a,b,c ELAGSEKSL1, ELAGSEKL2,ELAGSEKSL6**

Animal Rescue/Let's Learn About Nature

Students will hike the .75-mile trail and cross the swinging bridge while participating in a representational display of Georgia's fauna. They will have to use scientific inquiry as they listen to poems describing their fauna to distinguish differences between them. They will also observe and explore objects and use the observable characteristics to categorize them as living or non-living. They will use the characteristics to further group the living things as plants or animals. **Standards: SKL1,SKL2, ELAGSEKSL1, ELAGSEKL2,ELAGSEKSL6**

1st Grade

Weather and the Basic Needs of Plants and Animals

Students will learn about the parts of a plant, compare the basic needs of plants and animals and develop an understanding of the basic needs of all living things. They will also learn about *the various forms of precipitation* students will also hike the .75-mile trail that includes the swinging bridge where they will participate in a fun activity describing and finding Georgia fauna. **Standards: S1L1a,b,c, S1E1b ,ELAGSE1SL1**

2nd Grade

Life Cycles of Living Organisms

Students will investigate the life cycles of common animals and plants, create a "butterfly and chrysalis", as well as making a seed necklace to take home and observe plant growth over time. Students will also hike the .75-mile trail that includes the swinging bridge where they will participate in a fun activity describing and finding Georgia fauna. **Standard: S1L1,S2L1a-d ELAGSE2SL1, ELAGSE2SL2, ELAGSE2SL3**



THE PETTIT PRESERVE

The Margaret & Luke Pettit Environmental Preserve, Inc.

2nd Grade (continued)

Environmental Changes

Students will ask questions to obtain information about major changes to the environment in the community and construct an explanation of the causes and effects of a change to the environment in the community. These changes will include a comparison of environmental uses in the past by the Cherokee Indians and ways the land in Georgia is used by today's inhabitants. Students will also hike the .75-mile trail that includes the swinging bridge where they will participate in a fun activity describing and finding Georgia fauna.

Standards: S2E3a,b SS2H2, ELAGSE2SL1, ELAGSE2SL2, ELAGSE2SL3

3rd Grade

How Do We Affect Our Environment?

Students will hike the beautiful 1.7-mile Ann and John Collins' Trail as they observe and discuss the effects of pollution and human activity on the environment. Back at The Learning Shed, students will learn about recycling, reducing, and reusing to protect our environment. They will visit the compost garden and participate in the composting of materials and observe the results. **Standards: S3L2a,b ELAGSE3SL1, ELAGSE3SL3**

Rocks, Soil and A Place To Live

Students will explore the rock cycle, physical attributes of rocks and learn about the similarities and differences between the regions of Georgia and the flora and fauna that inhabit the regions. They will also hike the 1.7-mile Ann and John Collins' Trail, observing the flora and fauna of the Piedmont. **Standards: S3E1a,b,c, S3L1a,b,c ELAGSE3SL1, ELAGSE3SL3**

4th Grade

Let The Energy Flow

Students will participate in interactive activities designed to develop an understanding of the roles of organisms and the flow of energy through an ecosystem, as well as *The water cycle and the multiple pathways water may take during the cycle*. While hiking the 1.7-mile Ann and John Collins' Trail, they will have the opportunity to observe producers, consumers and decomposers in an ecosystem. **Standards S4L1a,b,c, S4E3, ELAGSE4SL1**



THE PETTIT PRESERVE

The Margaret & Luke Pettit Environmental Preserve, Inc.

5th Grade

Classification of Organisms and Animal Behavior

Students will illustrate how animals are sorted into groups (vertebrate and invertebrate) and how vertebrates are sorted into groups. They will also compare/contrast instincts and learned behaviors as well as inherited and genetic traits. The students will hike the 1.7-mile Ann and John Collins' Trail to experience the flora and fauna of the Piedmont. **Standards: S5L1a, S5L2a, ELAGSE5SL1:**

6th Grade

Uses and Conservation of Natural Resources and Their Impact on the Earth

Students will participate in activities designed to learn about the uses and conservation of various natural resources, their impact on the earth and the importance of sustaining natural resources for the future. Conservation and examples of human impact will be observed and discussed as students hike the 1.7-mile Ann and John Collins' Trail. **Standards: S6E6 ELAGSE6SL1**

The Surface of the Earth

Students will investigate the characteristics of minerals and explore the geological process of the rock cycle. They will also learn about the changes to rocks caused by natural processes and human activity. Many of these changes will be observed as students hike the 1.7-mile Ann and John Collins' Trail. **Standards: S6E5, ELAGSE6SL1**

7th Grade

Common Characteristics and Interdependence of Organisms

Students will use a dichotomous key to categorize organisms based on common characteristics and participate in hands on activities designed to create an understanding of the effect resource availability and human activity have on populations and ecosystems. The students will hike the 1.7-mile Ann and John Collins' Trail where they will have the opportunity to observe the effects of human activity on the environment. **Standards: S7L1a, b, S7L4a,b,c ELAGSE7SL1, ELAGSE7SL3**



THE PETTIT PRESERVE

The Margaret & Luke Pettit Environmental Preserve, Inc.

9th-12th Grade

Interdependence of Organisms on One Another and Their Environment

The students will hike the Ann & John Collins' Trail, The Toyo Tires Trail, and The Swinging Bridge Trail. This trail will take the students around the 9-acre lake, through the Appalachian type wooded preserve, and across the 36-foot swinging bridge. Under the Learning Shed, students will develop an understanding of the relationship between environmental changes and the stability of an ecosystem, predict how these changes affect an organism's ability to survive and explore ways humans can reduce their impact on the environment.

Standards: SB5a-e, SB6e

The Value of Biodiversity/Aquatic Investigation

Students will explore the value of biodiversity in an environment and investigate the impact of chemical and physical properties on aquatic biomes. The hike along the Ann & John Collins' Trail, The Toyo Tires Trail, and The Swinging Bridge Trail taking the students around the 9-acre lake, through the Appalachian type wooded preserve, and across the 36-foot swinging bridge will give students an opportunity to observe biodiversity and aquatic biomes first hand.

Standards SEV1a-e, SEV2d