



A Teacher's Guide
to the
North Carolina Educational State Forest
System

Table of Contents

- **About the Educational State Forest System**
- **Outdoor Education Classes**
- **Reservations**
- **Forest Season / Schedule**
- **Fees**
- **Arrival**
- **Student Conduct**
- **Clothing Suggestions**
- **Cancellations**
- **Educator Workshops**
- **Locations of Educational State Forests**

Class Directory:

- 1. THE TRUE STORY OF SMOKEY BEAR**
- 2. FOREST LIFE ACTIVITY**
- 3. WILDFIRE CONTROL**
- 4. TEXTURAL TRAIL**
- 5. OUT OF PLACE**
- 6. PREDATORS AND THEIR PREY**
- 7. TREE RINGS**
- 8. WHAT WE GET FROM TREES**
- 9. HOW PAPER COMES FROM TREES**
- 10. MEET YOUR TREE**
- 11. NEW FORESTS FOR WILDLIFE**
- 12. FOREST WATER INVESTIGATION**
- 13. FOREST SOILS INVESTIGATION**
- 14. NAVAL STORES**
- 15. LOWER PLANT LEVELS**
- 16. FOREST RELAY**
- 17. WILDLIFE HABITATS**
- 18. FOREST SUCCESSION**
- 19. FOREST ORIENTATION**
- 20. FOREST WETLAND INVESTIGATION**

About the Educational State Forest System

The North Carolina Forest Service operates a system of seven Educational State Forests (ESFs) designed to teach the public-especially school children--- about the forest environment.

Since the first forest opened in 1976 in Johnston County, the ESF program has become so popular that teachers must make reservations months in advance to bring their students to the forest for environmental education classes.

Each forest features self-guided trails that include exhibits, tree identification signs, a forest education center and a talking tree trail. Specially trained rangers are available to conduct classes for school and other youth groups. Teachers or group leaders choose from a selection of 30-minute programs that cover all aspects of the forest environment -from soil, water and wildlife to timber and forest management .

Every summer, the NCFS offers an environmental education workshop at each forest for teachers and other leaders of youth group leaders. The "Investigating your Environment "workshops focus on methods of teaching outdoors. This 30-hour workshop offers teacher renewal credit. Project Learning Tree workshops are also conducted at the ESFs.

The seven Educational State Forests are Clemmons in Johnston County, Holmes in Henderson County, Jordan Lake in Chatham County, Rendezvous Mountain in Wilkes County, Turnbull Creek in Bladen County, and Tuttle in Caldwell County. The seventh ESF, Mountain Island, is currently being prepared for public access. However, classes may still be available from the forest staff.

Outdoor Education Classes

We hope this guide will be of use to you as you plan your visit to the Educational State Forest. Our classes are designed to help learners understand that forests are complex ecosystems that can be managed for many uses. These classes cover topics such as how to tell the age of a tree, how forests influence wildlife and how important North Carolina 's forest resources are to the state 's citizens.

The education staff is comprised of professional rangers employed by the North Carolina Forest Service. They have been trained in the latest teaching techniques applicable to North Carolina schools.

If you have any questions, please call any one of the forest offices and the rangers will be happy to answer them.

Reservations

Reservations for classes are required. Each class lasts approximately 30 minutes and a minimum of 10 students per class is required. Please contact the Educational State Forest of your choice for reservations.

When making reservations, please specify your expected arrival and departure times and the classes you would like to schedule. Please allow 15 minutes walking time between teaching sites.

When planning your agenda, it may be helpful to refer to the North Carolina Department of Public Instruction (DPI) curriculum objectives correlation listed in each class description.

Our rangers will be happy to make suggestions concerning class scheduling and help you plan your agenda. We want your visit to be productive as well as enjoyable.

If you have special educational needs that are not addressed by our curriculum, please contact the Forest Supervisor to see if a special class on your topic could be developed.

Forest Season / Schedule

Jordan Lake and Clemmons are open March 1 through November 30. All other forests are open mid-March through November.

Fees

All classes are free of charge.

Arrival

Rangers make every effort to provide the quality educational experience you desire. Our rangers will be ready to present your scheduled classes as soon as your group arrives at the forest. We know you will make every effort to arrive on time; however, we also know unexpected situations can occur. If your arrival will be delayed, please notify the forest as soon as possible. To make your visit an enjoyable and productive experience, some adjustments of your agenda, including deletions of classes, may be necessary if your group arrives late.

Student Conduct

Just as in your classroom, undisciplined students lessen the educational value of our classes. We ask that you have sufficient adults present to control student behavior. We suggest a minimum of one adult per 10 students.

Clothing Suggestions

All classes are conducted outdoors and students and adults should dress appropriately.

Cancellations

If your plans change, please notify the forest as early as possible.

Educator Workshops

The Educational State Forests periodically schedule environmental education workshops, such as Investigating Your Environment, Project Learning Tree and Project WILD. Please contact the forest of your choice for further information.

Locations of Educational State Forests

Clemmons ESF
2411 Old US 70 West
Clayton, NC 27520
(919) 553-5651
ClemmonsESF.ncfs@ncagr.gov

Jordan Lake ESF
2832 Big Woods Road
Chapel Hill, NC 27514
(919) 542-1154
JordanLakeESF.ncfs@ncagr.gov

Rendezvous Mountain ESF
Rendezvous Mtn. Road
Purlear, NC 28665
(336) 667-5072
bobby.myers@ncagr.gov

Tuttle ESF
Route 6, Box 417
Lenoir, NC 28645
(828) 757-5608
tuttleesf.ncfs@ncagr.gov

Holmes ESF
1299 Crab Creek Road
Hendersonville, NC 28739
(828) 962-0100
holmesESF.ncfs@ncagr.gov

Mountain Island ESF
534 Killian Road
Stanley, NC 28164
(704) 822-9518
mountainislandESF.ncfs@ncagr.gov

Turnbull Creek ESF
4506 NC 242 North
Elizabethtown, NC 28337
(910) 588-4161
turnbullcreekESF.ncfs@ncagr.gov



Classes

THE TRUE STORY OF SMOKEY BEAR

In this class, students will learn the story of Smokey Bear and the meaning of his message: being careful with fire in the forest is everyone's responsibility. Students will also learn they have a responsibility to help others be careful with fire.

Duration: 45 minutes **Suggested Grade Level:** K-2

Pre-visit suggestions: None.

Related Project Learning Tree Activities: The Forest of S.T. Shrew; Trees in Trouble

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation: K.L.1.1 K.L.1.2 K.H.1.3 K.G.1.3 K.G.2.2 KC&G1.2

Social Studies Correlation: K.C&G.1.1 K.C&G.1.2 KH.1.3 K.G.1.3 K.G.2.1 K.G.2.2

First Grade

Science Correlation: 1.L.1.1 1.L.1.2 1.L.1.3 1.L.2.1 1.L.2.2 EX.1.L.2.4

Social Studies Correlation: 1.C&G.1.1 1.C&G.1.2 1.C&G.1.3

Second Grade

A TEACHER'S GUIDE TO THE EDUCATIONAL STATE FOREST SYSTEM

Science Correlation: 2.E.1.1 EX.2.E.1.1

Social Studies Correlation: 2.G.2.2 2.C&G.2.1 2.C &G.2.2

FOREST LIFE ACTIVITY

The benefits of wise management of forest resources is the primary focus of this class. Through the use of a simulation activity, students learn about the life cycle of trees and the consequences of not being a forest steward.

Duration: 30 minutes **Suggested Grade Level:** K-2

Pre-visit suggestions: Students should understand that trees, like animals, have a life cycle.

Related Project Learning Tree Activities: Forest for the Trees; Tree Life Cycle; Plant a Tree; Adopt a Tree

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation: K.L.1.1 K.L.1.2

Social Studies Correlation: K.H.1.2 K.G.2.2

First Grade

Science Correlation: 1.L.1.1 1.L.1.2 1.L.2.1 1.L.2.2

Social Studies Correlation: 1.C&G.1.3 1.E.1.2

Second Grade

Science Correlation:

Social Studies Correlation: 2.C&G.2.1 2.C &G.2.2 2.G.2.2

WILDFIRE CONTROL

This class makes students aware of things they can do in their community to prevent wildfires. Calling 911, "stop, drop and roll", the "Fire Triangle" and tools and methods used in fighting wildfires will be taught and demonstrated.

Duration: 30 minutes **Suggested Grade Level:** 1-3

Pre-visit suggestions: Students should understand the three elements that combine to produce fire: fuel, oxygen and heat.

Related Project Learning Tree Activities: Living with Fire; Forest for the Trees; Nothing Succeeds Like Succession

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.1 1.L.1.2 1.L.1.3 1.L.2.1 1.L.2.2 EX.1.L.2.4

Social Studies Correlation: 1.C&G.1.1 1.C&G.1.2 1.C&G.1.3 1.G.2.1 1.G.2.2 1.G.2.3
EX.1.E.1.1

Second Grade

Science Correlation: 2.P.2.1 2.P.2.2 2.E.1.2 2.E.1.1 EX.3.E.1.1

Social Studies Correlation: 2.G.2.2 2.C&G.1.1 2.C&G.2.1 2.C &G.2.2 EX.2.C&G.2.2
EX.2.C&G.2.3 EX.2.C&G.2.4

Third Grade

Science Correlation: 3.L.2.2

Social Studies Correlation:

TEXTURAL TRAIL

(Tuttle & Rendezvous Mountain ESFs only)

Students will use their 5 senses to investigate the forest environment.

Duration: 30 minutes **Suggested Grade Level:** K, 2

Pre-visit suggestions: None.

Related Project Learning Tree Activities: Peppermint Beetle; Get in Touch with Trees; Sounds Around; The Shape of Things

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation:

Social Studies Correlation: K.H.1.2 K.G.2.2

Second Grade

Science Correlation:

Social Studies Correlation: 2.G.2.2

OUT OF PLACE

(Tuttle, Holmes, Turnbull Creek & Rendezvous Mountain ESFs only)

Students will learn what things do and do not belong in the forest and why. The concepts of litter and recycling will be explored and students will discuss ways they can help reduce litter. This is an excellent class to develop observational skills in young learners.

Duration: 15 minutes **Suggested Grade Level:** K-2

Pre-visit suggestions: Students should be able to define the term "litter."

Related Project Learning Tree Activities: Earth Manners; Talking Trash, Not!; Nature's Recyclers

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation:

Social Studies Correlation: K.C&G.1.1 K.C&G.1.2 K.G.2.2

First Grade

Science Correlation:

Social Studies Correlation: 1.C&G.1.1 1.C&G.1.3 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.1
1.C&G.1.2

Second Grade

Science Correlation:

Social Studies Correlation: 2.C&G.2.1 2.C &G.2.2 2.G.2.2 EX.2.C&G.2.3 EX.2.C&G.2.4

PREDATORS AND THEIR PREY

Students study how predators adapt and student gain an understanding of the balance that exists between habitat and predator and prey. The effect of regulated hunting on ecosystem balance also will be explored.

Duration: 30 minutes **Suggested Grade Level:** K-6

Pre-visit suggestions: Students should have a basic understanding of the terms "food chain", "predator" and "prey."

Related Project Learning Tree Activities: Birds and Worms; School Yard Safari.

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation: K.G.2.2

Social Studies Correlation:

First Grade

Science Correlation: 1.L.1.1 1.L.1.2 1.L.1.3 1.L.2.2

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.1 1.C&G.1.2

Second Grade

Science Correlation: 2.L.1.1 2.L.1.2 2.L.2.1 2.L.2.2 EX.2.L.1.2 EX.2.L.2.2

Social Studies Correlation: 2.G.2.2 EX.2.C&G.2.3 EX.2.C&G.2.4

Third Grade

Science Correlation:

Social Studies Correlation: 3.C&G.2.1 3.G.1.3

Fourth Grade

Science Correlation: 4.L.1.1 4.L.1.2 4.L.1.3 4.L.1.4 EX.4.L.1.1 EX.4.L.1.3
EX.4.L.1.4

Social Studies Correlation: 4.G.1.2

Fifth Grade

Science Correlation: 5.L.2.1 5.L.2.2 5.L.2.3 EX.5.L.2.2

Social Studies Correlation: 5.G.1.2 EX.5.G.1.1

Sixth Grade

Science Correlation: 6.L.2.3

Social Studies Correlation:

WHAT WE GET FROM TREES

The objective of this class is to increase the student's awareness of the many common and uncommon products that come from trees.

Duration: 30 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions: Students should understand what natural resources are.

Related Project Learning Tree Activities: Tree treasures; Make Your Own Paper; We All Need Trees

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.2 1.L.1.3 1.L.2.1 EX.1.L.2.4

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.2

Second Grade

Science Correlation: 2.P.2.1 2.P.2.2 2.L.2.1 EX.2.L.2.1 EX.2.L.2.2

Social Studies Correlation: 2.G.2.2 2.E.1.1 2.E.1.2 2.G.2.1 2.C&G.1.1 2.C&G.1.2

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 2.L.2.3 2.L.2.4 EX.3.L.2.1 EX.3.L.2.2

Social Studies Correlation: 3.E.1.2 3.G.1.3 EX.3.G.1.1 EX.3.G.1.3

Fourth Grade

Science Correlation: 4.L.1.3 4.L.2.1 EX.4.L.1.2 EX.4.L.1.3

Social Studies Correlation: 4.G.1.3 4.E.1.1 4.H.1.3 4.G.1.2 EX.4.G.1.3

Fifth Grade

Science Correlation: 5.L.2.3 EX.5.L.2.2

Social Studies Correlation: 5.E.1.2 5.G.1.1 5.G.1.2 5.C&G.2.4 EX.5.G.1.1

HOW PAPER COMES FROM TREES

The objective of this class is to teach the history and economic importance of the paper industry to North Carolina. Students will also learn that trees, unlike coal or oil, are renewable natural resources. Students will make a piece of paper.

Duration: 30 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions: Students should understand the difference between renewable and non-renewable natural resources.

Related Project Learning Tree Activities: Make Your Own Paper; Paper Civilizations

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.3

Social Studies Correlation: 1.G.2.1 1.G.2.2

Second Grade

Science Correlation: 2.G.2.2

Social Studies Correlation: 2.G.2.1 2.G.2.2

Third Grade

Science Correlation: 3.L.2.2

Social Studies Correlation: 3.E.1.2

Fourth Grade

Science Correlation: 4.L.1.1 4.L.1.3 EX.4.L.1.2

Social Studies Correlation: 4.E.1.2 4.G.1.3 4.E.1.1 4.E.2.2

Fifth Grade

Science Correlation: 5.L.2.3 5.G.1.2

Social Studies Correlation: 5.E.1.2 5.G.1.2 EX.5.G.1.1

MEET YOUR TREE

This class introduces students to common forest trees in their particular region of North Carolina. Students will learn to identify trees by bark, shape and leaves. Students also will learn some of the ways different species of trees have been used by North Carolinians.

Duration: 30 minutes **Suggested Grade Level:** 3-4

Pre-visit suggestions: Students should be able to organize items using color, shape, size and texture.

Related Project Learning Tree Activities: Looking at Leaves; Get in Touch with Trees; Poet-Tree

NC Department of Public Instruction teaching objectives addressed by this class:

Third Grade

Science Correlation:

Social Studies Correlation: 3.E.1.2 3.G.1.3 EX.3.G.1.1 EX.3.G.1.2
EX.3.G.1.3

Fourth Grade

Science Correlation:

Social Studies Correlation: 4.G.1.3 4.E.1.1 4.H.1.3 4.G.1.2 EX.4.G.1.3

NEW FORESTS FOR WILDLIFE

Managing forests that have trees of the same age is a proven way of improving habitat for wildlife. This class uses observation, classification and prediction skills to investigate the effect of forest management on wildlife.

Duration: 30 minutes **Suggested Grade Level:** 4-5

Pre-visit suggestions: Students should have a good understanding of addition, subtraction and multiplication math skills.

Related Project Learning Tree Activities: How Big Is Your Tree? Germinating Giants

NC Department of Public Instruction teaching objectives addressed by this class:

Fourth Grade

Science Correlation:

Social Studies Correlation: 4.G.1.3 4.G.1.4 4.E.1.1 4.H.1.3 4.G.1.2

Fifth Grade

Science Correlation:

Social Studies Correlation: 5.G.1.2 5.C&G.2.4 EX.5.G.1.1

FOREST WATER INVESTIGATION

This class uses the student's science process skills to investigate a forest watershed and learn how the forest influences the water cycle. Students work in cooperative groups to collect, observe and classify different forms of aquatic life. If the complete class is taught, students will measure stream flow and discuss ways to manage land to meet the needs of society.

Duration: 30 minutes (1-4 hours if the complete class is taught) **Suggested Grade Level:** 1-6

Pre-visit suggestions: Students should have basic familiarity with the concept of a watershed. Observation and classification skills will be used in this class.

Related Project Learning Tree Activities: Every Drop Counts; Water Wonders; Field, Forest and Stream

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.3 EX.1.L.2.2 EX.1.L.2.3 EX.1.L.2.4

Social Studies Correlation:

Second Grade

Science Correlation: 1.L.1.3 EX.1.L.2.2 EX.1.L.2.2 EX.1.L.2.3 EX.1.L.2.4

Social Studies Correlation:

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 3.L.2.3 3.P.3.2 3.E.2.1 EX.3.P.2.4

Social Studies Correlation: 3.G.1.3 3.G.1.2

Fourth Grade

Science Correlation: 4.L.1.3 4.L.2.1 4.L.1.1 4.L.1.4 4.E.2.3 4.L.1.3

Social Studies Correlation:

Fifth Grade

Science Correlation: 5.L.2.1 5.L.2.2 5.L.2.3 5.P.2.1 5.P.3.1 EX.5.L.2.1
EX.5.L.2.3

Social Studies Correlation: 5.G.1.2

Sixth Grade

Science Correlation: 6.L.2.3 6.L.2.2 6.L.2.1 6.L.1.2

Social Studies Correlation:

FOREST SOILS INVESTIGATION

This class uses the student's science process skills in an investigation of the structure, function and formation of soil. Students will explore the relationship between forests and soils.

Duration: 30 minutes (1-4 hours if complete investigation is done) **Suggested Grade Level:** 1-6

Pre-visit suggestions: Students should understand that pH is a measure of acidity.

Related Project Learning Tree Activities: Soil Stories; Nature's Recyclers; Field, Forest and Stream.

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.E.2.1 1.E.2.2 1.L.1.3 EX.1.E.2.2 EX.1.L.2.4

Social Studies Correlation:

Second Grade

Science Correlation: EX.2.L.2.1 EX.2.L.2.2 EX.2.L.2.3

Social Studies Correlation:

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 3.L.2.3 3.L.2.4 EX.3.L.2.3

Social Studies Correlation: 3.G.1.3 3.G.1.6 3.C&G.2.2 EX.3.G.1.1 EX.3.G.1.2
EX.G.1.3

Fourth Grade

Science Correlation: 4.E.2.3 EX.4.E.1.3

Social Studies Correlation:

Fifth Grade

Science Correlation: 5.L.2.1 5.L.2.2 5.L.2.3 5.G.1.1 5.G.1.2 EX.5.G.1.1

Social Studies Correlation: 5.G.1.1 5.G.1.2 EX.5.G.1.1

Sixth Grade

Science Correlation: 6.L.2.1 6.L.2.2 6.L.2.3

Social Studies Correlation:

NAVAL STORES

(Turnbull Creek ESF only)

Students will learn about the naval stores industry that existed along the coastal plain of North Carolina from the early 1700's until the mid-20th century. An original tar kiln site, a reconstructed tar kiln, an original turpentine still and "box faced" long leaf pine are some of the historic training aids that highlight this class.

Duration: 30-60 minutes

Suggested Grade Level: 3-4

Pre-visit suggestions: None.

Related Project Learning Tree Activities: Then and Now; Did You Notice?; A Few of My Favorite Things

NC Department of Public Instruction teaching objectives addressed by this class:

Third Grade

Science Correlation:

Social Studies Correlation: 3.G.1.2

Fourth Grade

Science Correlation:

Social Studies Correlation: 4.H.1.14.H.1.34.H.2.24.G.1.14.H.1.2

LOWER PLANT LEVELS

(Tuttle, Clemmons & Rendezvous Mountain ESFs only)

This class explores lower level plants such as lichens, algae and fungi- how they get their energy; their classification; and their relationship to the forest ecosystem.

Duration: 30 minutes **Suggested Grade Level:** 3, 5, 6

Pre-visit suggestions: None.

Related Project Learning Tree Activities: The Fallen Log

NC Department of Public Instruction teaching objectives addressed by this class:

Second Grade

Science Correlation:

Social Studies Correlation: 2.G.2.12.C&G.1.1 2.C&G.2.2 2.G.2.2 EX.2.C&G.2.3
EX.2.C&G.2.4

Third Grade

Science Correlation:

Social Studies Correlation: 3.G.1.3 EX.3.G.1.1 EX.3.G.1.2 EX.3.G.1.3

Fourth Grade

Science Correlation:

Social Studies Correlation: 4.H.1.3 4.G.1.2 EX.4.G.1.3

Fifth Grade

Science Correlation:

Social Studies Correlation: 5.G.1.15.G.1.25.C&G.2.4 EX.5.G.1.1

FOREST RELAY

Students will learn to identify four common forest trees. Students will use a set of characteristics to correctly identify the various species. The basic parts of trees and flowers will be addressed. A relay race will reinforce knowledge of species and their characteristics.

Duration: 45 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions:

Related Project Learning Tree Activities:

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.2 1.L.1.3 1.L.2.1 EX.1.L.2.1

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.2

Second Grade

Science Correlation: 2.L.2.1 EX.2.L.2.1 EX.2.L.2.2

Social Studies Correlation: 2.G.2.1 2.G.2.2 2.C&G.1.1 2.C&G.2.2 EX.2.C&G.2.3
EX.2.C&G.2.4

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 3.L.2.3 3.L.2.4 EX.3.L.2.1 EX.3.L.2.2

Social Studies Correlation: 3.G.1.3 EX.3.G.1.1 EX.3.G.1.2 EX.3.G.1.3

Fourth Grade

Science Correlation: EX.4.L.1.2 EX.4.L.1.3

Social Studies Correlation: 4.H.1.3 4.G.1.2 EX.4.G.1.3

Fifth Grade

Science Correlation: EX.5.L.2.2

Social Studies Correlation: 5.G.1.1 5.G.1.2 5.C&G.2.4 EX.5.G.1.1

WILDLIFE HABITATS

Students will learn about habitats and gain the ability to recognize the various types of habitats found in the forest. Students will investigate the use of coloration in relation to survival. A habitat scavenger hunt provides the student with an opportunity for personal discovery and exploration.

Duration: 45 minutes **Suggested Grade Level:** K-5

Pre-visit suggestions:

Related Project Learning Tree Activities:

NC Department of Public Instruction teaching objectives addressed by this class:

Kindergarten

Science Correlation:

Social Studies Correlation: K.G.2.2

First Grade

Science Correlation: 1.L.1.1 1.L.1.2 1.L.1.3 1.L.2.2

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.1 1.C&G.1.2

Second Grade

Science Correlation: 2.L.1.1 2.L.1.2 2.L.2.1 2.L.2.2 EX.2.L.1.2 EX.2.L.2.1
EX.2.L.2.2

Social Studies Correlation: EX.2.C&G.2.3 EX.2.C&G.2.4

Third Grade

Science Correlation:

Social Studies Correlation: 3.G.1.3

Fourth Grade

Science Correlation: 4.L.1.1 4.L.1.2 4.L.1.4 EX.4.L.1.1 EX.4.L.1.3 EX.4.L.1.4

Social Studies Correlation: 4.G.1.2

Fifth Grade

Science Correlation: EX.5.L.2.2

Social Studies Correlation: 5.G.1.1 5.G.1.2 EX.5.G.1.1

FOREST SUCCESSION

Students will analyze the various stages of a forest. Students will analyze the differences in each of the stages of a forest. Students will acquire information through discussion, observation and exploration.

Duration: 45 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions:

Related Project Learning Tree Activities:

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.2 1.L.1.3 1.L.2.1 EX.1.L.2.4

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.2

Second Grade

Science Correlation: 2.L.2.1 EX.2.L.2.1 EX.2.L.2.2

Social Studies Correlation: 2.G.2.1 2.G.2.2 2.C&G.1.1 2.C&G.2.2 EX.2.C&G.2.3
EX.2.C&G.2.4

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 2.L.2.3 2.L.2.4 EX.3.L.2.1 EX.3.L.2.2

Social Studies Correlation: 3.G.1.3 EX.3.G.1.1 EX.3.G.1.2 EX.3.G.1.3

Fourth Grade

Science Correlation: EX.4.L.1.2 EX.4.L.1.3

Social Studies Correlation: 4.H.1.3 4.G.1.2 EX.4.G.1.3

Fifth Grade

Science Correlation: EX.5.L.2.2

Social Studies Correlation: 5.G.1.1 5.G.1.2 5.C&G.2.4 EX.5.G.1.1

FOREST ORIENTATION

Students will learn the five areas of forest management: recreation, timber production, wildlife, soil and water, and aesthetics. Students will evaluate the techniques and tools utilized to create a sustainable, renewable resource.

Duration: 45 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions:

Related Project Learning Tree Activities:

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.2 1.L.1.3 1.L.2.1 EX.1.L.2.4

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.2

Second Grade

Science Correlation: 2.L.2.1 EX.2.L.2.1 EX.2.L.2.2

Social Studies Correlation: 2.G.2.1 2.G.2.2 2.C&G.1.1 2.C&G.2.2 EX.2.C&G.2.3
EX.2.C&G.2.4

Third Grade

Science Correlation: 3.L.2.1 3.L.2.2 2.L.2.3 2.L.2.4 EX.3.L.2.1 EX.3.L.2.2

Social Studies Correlation: 3.G.1.3 EX.3.G.1.1 EX.3.G.1.2 EX.3.G.1.3

Fourth Grade

Science Correlation: EX.4.L.1.2 EX.4.L.1.3

Social Studies Correlation: 4.H.1.3 4.G.1.2 EX.4.G.1.3

Fifth Grade

Science Correlation: EX.5.L.2.2

Social Studies Correlation: 5.G.1.1 5.G.1.2 5.C&G.2.4 EX.5.G.1.1

FOREST WETLAND INVESTIGATION

Students will investigate wetlands and the variations between wetlands. Students will compare and contrast wetlands based on water, soil and plants. Students will also examine wetlands as a resource. Acquired skills will be reinforced through an interactive game that challenges student's knowledge of wetlands through analytic problem solving.

Duration: 45 minutes **Suggested Grade Level:** 1-5

Pre-visit suggestions:

Related Project Learning Tree Activities:

NC Department of Public Instruction teaching objectives addressed by this class:

First Grade

Science Correlation: 1.L.1.3 EX.1.L.2.2 EX.1.L.2.3 EX.1.L.2.4

Social Studies Correlation: 1.G.2.1 1.G.2.2 1.G.2.3 1.C&G.1.1 1.C&G.1.2

Second Grade

Science Correlation: 2.P.2.1 2.P.2.3 EX.2.P.2.1 EX.2.P.2.2 EX.2.L.2.1
EX.2.L.2.2 EX.2.L.2.3

Social Studies Correlation: 2.G.2.1 2.G.2.2 2.C&G.1.1 2.C&G.2.2 EX.2.C&G.2.4

Third Grade

Science Correlation: 3.P.3.2 3.E.2.1 EX.3.P.2.4

Social Studies Correlation: 3.E.1.2 EX.3.G.1.1 EX.3.G.1.2 EX.3.G.1.3

Fourth Grade

Science Correlation: 4.E.2.3 4.L.1.3

Social Studies Correlation: 4.H.1.3 4.G.1.2 EX.4.G.1.3 EX.4.C&G.2.2

Fifth Grade

Science Correlation: 5.P.2.1 5.P.3.1 EX.5.L.2.1 EX.5.L.2.3

Social Studies Correlation: 5.G.1.2 5.C&G.2.4 EX.5.G.1.1