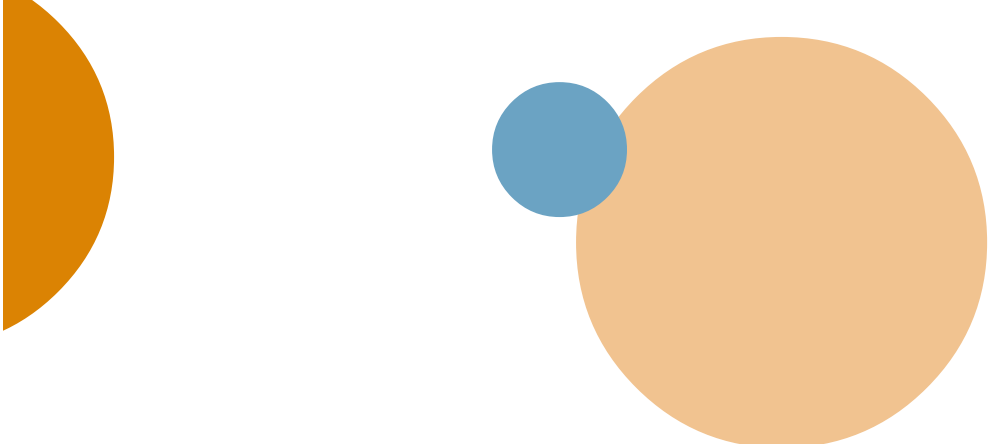


LAKE FRIERSON STATE PARK

7904 Highway 141
Jonesboro, AR 42802
Phone: (870) 932-2615
Email: lakefrierson@arkansas.com
www.ArkansasStateParks.com



Lake Frierson's
EDUCATOR'S
GUIDE



LAKE FRIERSON STATE PARK

INTRODUCTION

Mission Statement Lake Frierson State Park exists to provide quality recreational and educational opportunities to park guests and to enhance their outdoor experience while safeguarding the natural, cultural and historical resources.



Lake Frierson and Lake Frierson State Park

Lake Frierson and Lake Frierson State Park front the western edge of picturesque Crowley's Ridge, a geological phenomenon which rises 100-200 feet above the surrounding countryside and stretches from southern Missouri to the Mississippi River at Helena, Arkansas.

Lake Frierson State Park was made a part of the Arkansas State Parks system in 1975, after completion of the lake. One hundred fourteen acres were leased from the Arkansas Game & Fish Commission to establish the park.

Our educational emphasis is the natural resources of Crowley's Ridge as shown in the Crowley's Ridge Natural Division of Arkansas. Specific activities include studies of the forest and lake environments of Lake Frierson State Park. We demonstrate to your students through hands-on activities that the resources where they live are unique, interesting and have value. Plus, many of our programs teach or reinforce your specific educational framework requirements.

Schedule a Visit

The Lake Frierson State Park staff invites you and your students to visit the park.

Teacher's love Arkansas's state parks because the parks are places where students can apply what the teacher has taught in the classroom. Many of our programs support the state curriculum standards, and we are happy to work with you to develop customized programs to meet



your curriculum needs or the special needs of your students. Some, but not all, of our program locations are accessible.

Arkansas State Parks takes pride in its varied programs for school groups and its support and services for teachers. With advance notice and curriculum guidelines from the teacher, our staff will plan educational experiences that are exciting, memorable and reinforce your classroom goals.

Planning Your Visit

Please schedule your visit to the park a minimum of two weeks in advance by calling the park visitor center at (870) 932-2615 between the hours of 8 am and 5 pm Monday through Friday. You may also visit the Arkansas State Park's website at www.ArkansasStateParks.com then click on the "Teachers, Schools and Volunteers" area and fill out the on-line reservation form. This avoids conflicts with other visiting school groups and allows us to serve you better. Allow

30 to 45 minutes for each program. Upon arrival at the park, check in at the visitor center, allow time for restroom breaks and visits to the gift shop when students disembark from the bus. Discuss your arrangements with park personnel, since some restrooms are closed during cold weather.





When you call to schedule your visit, please have the following information ready:

- Your name
- The school name and address
- Address, phone number and email of contact person and teacher
- The number of students and the grade level
- Your preferred and alternate trip dates
- Your time of arrival
- The time available for the program
- Your educational objectives for the visit
- Accommodations needed for students with disabilities
- Any fees are paid upon entrance to the park – there are no fees for most programs and activities, but pavilion rentals are cost items.

Preview Visit

It is recommended that the teacher make a preview visit to the park. This will provide contact with the park personnel and allow you to become familiar with locations of restrooms, water fountains, exhibits, classrooms, audiovisual services, trails, and the accessibility of the site.

Ideas for preparing yourself before the field trip:

- Visit the park before your trip with colleagues and chaperones.
- Identify parking, lunch area, playground area, and restroom locations.
- Consider attending one of our teacher workshops offered in late July. This workshop teaches area educators about unique features that occur on Crowley's Ridge.
- Explore the outdoor areas you plan to visit. Consider designing activities with the park staff that relate to your classroom studies.

Student Preparation

Studies have shown that students learn more when they know the plan for the day: where they will be, what will be expected of them and when they will return. Lack of this basic information often causes worry about “what happens next,” to the point they cannot concentrate on your educational mission.

Prepare Your Students

Once you have explained the mechanics of the trip, prepare your students for field trip learning with classroom activities related to what they will be doing at the park. The park staff can help you design appropriate pre and post-visit activities. Some of these pre and post activities may already be available at the park depending on the program topic you have chosen.

BE SURE YOUR STUDENTS KNOW:

- The time and date of departure
- Point of departure
- Educational objective of the field trip
- Necessary expenses
- Lunch
- Appropriate dress
- Rules (of teacher and the park)
- Available free time
- Parental permission forms as required by the school
- Field trip supplies (camera, notebook, pencils, etc.)
- Special assignments/worksheets
- Time they will return to school

Chaperones

It is important that students, whether working as a class or in small groups, have proper supervision. Arkansas law requires one chaperone for every ten students (bus drivers qualify). All chaperones should clearly understand their disciplinary duties and stay with the students during the field trip.

Most of our programs are free, however, when there is a fee involved, chaperones are admitted at the school group rate (teachers are admitted free).



Discipline Class discipline is the teacher's responsibility. Please explain to all students that appropriate, orderly behavior is expected during their visit. Use simple rules of respect for park resources and courtesy toward each other, keeping in mind that other visitors may be at the park at the same time. **All plants, minerals, animals, fossils, and artifacts are protected by state law and should not be disturbed or removed.**

Inclement Weather In bad weather, Lake Frierson State Park has an enclosed pavilion that can accommodate groups of 80 or less. Inclement weather may require rescheduling or changes in activity plans. Check with the park before visiting in such weather. **Notify the park immediately if circumstances require you to cancel your visit.**

Lunch and Other Services Your school group can bring lunches or use one of the barbecue grills in the picnic area. Lake Frierson State Park does have an enclosed pavilion available for rent and reservations are required. Soda machines are conveniently located and chips, candy, and bagged ice are for sale at the visitor center. A playground is located in the picnic area. It has swings, slides, a climber and other play units.

Location

From Jonesboro, travel 10 miles north on Arkansas Highway 141 to the park. From Paragould, travel 12 miles west on U.S. 412, then 8 miles south on Arkansas Highway 141 to the park. From Walnut Ridge, travel 16 miles east on U.S. 412, then 8 miles south on Arkansas Highway 141 to the park.

Lake Frierson State Park

7904 Highway 141
Jonesboro, AR 72401

Telephone: (870) 932-2615

Fax: (870) 932-1919

Email: lakefrierson@arkansas.com

Web: www.ArkansasStateParks.com



SCHOOL PROGRAMS & ACTIVITIES

Specialized programs can be developed specifically for your topic of study with a minimum of two weeks advance notice. Park staff are trained in Project WILD, Project WET and Project Learning Tree activities. The programs listed below have been correlated to the Arkansas Science Curriculum Frameworks for Earth and Life Sciences.

IN-PARK PROGRAMS

* Denotes Fee

Dogwood Lane Trail Hike

Objective: On a guided 1/2-mile walk, students will see trees, understory plants and wildlife that make up the unique forest community of Crowley's Ridge.

Grades: 3 – 8

Length: Approximately 30 minutes



K-4 Frameworks:

ES.2.1 Recognize and classify different types of Earth materials.

ES.2.2 Describe major features of the Earth's surface and how it is affected by natural changes.

- ES.3.2 Describe uses and conservation of materials to be taken from the Earth.
- ES.3.3 Identify the effects humans have on the environment (use and misuse).
- ES.2.1 Identify and compare characteristics of living and nonliving things.
- LS.2.5 Explore the life cycles of organisms.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.
- LS.3.3 Identify that humans change environments in ways that can be beneficial or detrimental for themselves and other organisms.

5-8 Frameworks:

- ES.1.1 Identify the components of Earth (rocks, water and air) and their properties.
- ES.2.4 Understand the effects of weathering and erosion on the Earth's surface.
- ES.3.8 Illustrate the positive and negative effects of human use of natural resources on Earth.
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.
- LS.2.12 Evaluate human impact on the environment.

Exploring Wildflowers!

Objective: Students will view our wildflower area. This program may include, wildflower identification or butterfly/insect identification. This area is continually changing so each visit is a unique experience.

Grades: 3 – 8

Length: Approximately 1 hour

Special Conditions: The best time to view this area is May -September.

K-4 Frameworks:

- ES.2.1 Recognize and classify different types of Earth materials.
- ES.2.2 Describe major features of the Earth's surface and how it is affected by natural changes.
- ES.3.2 Describe uses and conservation of material taken from the Earth.
- LS.2.1 Identify and compare characteristics of living and nonliving things.



- LS.2.5 Explore the life cycles of organisms.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.

5-8 Frameworks:

- LS.2.5 Explain life cycles of various organisms. (plants)
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.
- LS.2.12 Evaluate human impact on the environment.

IN-SCHOOL OR IN-PARK PROGRAMS

Black Bears of Arkansas

AG&FC Arkansas Black Bear Guide
Power Point Presentation

Objective: Students will learn the history and habitat of black bears in Arkansas.

Grades: K-6

Length: 30-45 minutes



K-4 Frameworks:

- LS.2.1 Identify and compare characteristics of living and nonliving things.
- LS.2.3 Identify and investigate the functions of body systems in organisms.
- LS.2.4 Recognize patterns and characteristics of organisms.
- LS.2.5 Explore the life cycles of organisms.
- LS.2.7 Understand that offspring are similar to their parents.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.
- LS.2.10 Understand that organisms are interdependent.

5-8 Frameworks:

- LS.2.3 Arrange organisms into groups according to similarities and differences.
- LS.2.4 Identify the requirements for living organisms.

- LS.2.9 Explain how characteristics of organisms help them adapt and survive in their environments.
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.

Formation of Crowley's Ridge

Objective: Students will learn how this unique geological phenomenon, known as Crowley's Ridge was formed. Includes PowerPoint presentation.

Grades: 5-8

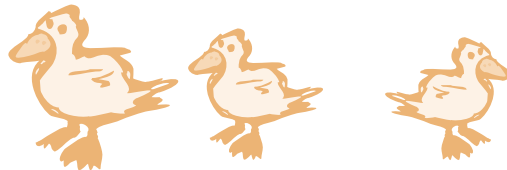
Length: 30 minutes

5-8 Frameworks:

ES.2.4 Understand the effects of weathering and erosion on the Earth's Surface.

ES.2.7 Explain and illustrate the water cycle.

Migration Headache



Project WILD Activity

Objective: Students will list limiting factors affecting

habitats and populations of migrating water birds; predict the effects of such limiting factors; describe the effects of habitat loss and degradation on populations of migrating water birds; and make inferences about the importance of suitable habitat for migrating water birds.

Grades: 4-8

Length: 30-45 minutes

Special Conditions: Requires large playing field or gymnasium.

K-4 Frameworks:

ES.2.5 Investigate seasonal changes in weather and factors which affect weather.

LS.2.1 Identify and compare characteristics of living and nonliving things.

LS.2.4 Recognize patterns and characteristics of organisms.

LS.2.5 Explore the life cycles of organisms.

LS.2.8 Identify the features of plants and animals that enable them to live in different environments.

LS.2.9 Define and describe a food chain and food web.

LS.2.10 Understand that organisms are interdependent.

5-8 Frameworks:

- LS.2.4 Identify the requirements for living organisms.
- LS.2.7 Describe how heredity and environment influence/determine characteristics of an organism.
- LS.2.9 Explain how characteristics of organisms help them adapt and survive in their environments.
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.

Native Plants of Arkansas

Power Point Presentation

Objective: This program will teach students about the types of plants that are native to Arkansas.

Grades: 3 – 8

Length: 20 minutes

K-4 Frameworks:

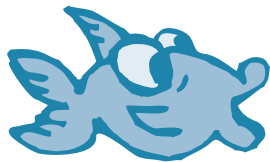
- LS.2.1 Identify and compare characteristics of living and nonliving things.
- LS.2.4 Recognize patterns and characteristics of organisms.
- LS.2.5 Explore the life cycles of organisms.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.
- LS.3.3 Identify that humans change environments in ways that can be beneficial or detrimental for themselves and other organisms.

5-8 Frameworks:

- ES.3.8 Illustrate the positive and negative effects of human use of natural resources on Earth.
- LS.2.5 Explain life cycles of various organisms.



There's Something Fishy Going On



Objective: Students will learn the types of fish found in Lake Frierson and the habitats they prefer.

Grades: 4-8

Length: 20-30 minutes

K-4 Frameworks:

- ES.3.1 Understand the varied uses of water.
- ES.3.2 Describe uses and conservation of materials taken from the Earth.
- ES.3.3 Identify the effects humans have on the environment (uses and misuses).
- LS.2.1 Identify and compare characteristics of living and nonliving things.
- LS.2.4 Recognize patterns and characteristics of organisms.
- LS.2.5 Explore the life cycles of organisms.
- LS.2.7 Understand that offspring are similar to their parents.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.

5-8 Frameworks:

- LS.2.3 Arrange organisms into groups according to similarities and differences.
- LS.2.4 Identify the requirements for living organisms.
- LS.2.5 Explain life cycles of various organisms.
- LS.2.9 Explain how characteristics of organisms help them adapt and survive in their environments.
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.

Who Polluted the Lake?

Objective: Students will learn the benefits and uses of the lake and hypothetical sources of pollution. Power point presentation and hands-on demonstration.

Grades: 3-8

Length: 30-45 minutes

K-4 Frameworks:

- ES.3.1 Understand the varied uses of water.
- ES.3.2 Describe uses and conservation of materials taken from the Earth.
- ES.3.3 Identify the effects humans have on the environment (uses and misuses).
- LS.2.10 Understand that organisms are interdependent.
- LS.3.3 Identify that humans change environments in ways that can be beneficial or detrimental for themselves and other organisms.



5-8 Frameworks:

- ES.1.3 Generate conclusions based on evidence acquired through experimentation.
- ES.3.8 Illustrate the positive and negative effects of human use of natural resources on Earth.
- LS.1.3 Conduct investigative science through use of the scientific method.
- LS.2.12 Evaluate human impact on the environment.

TRAVELING EDUCATION NATURE TRAILER

An Overnight Camping and Educational Activity

Arkansas State Park's Traveling Educational Nature Trailer, (TENT), provides a mobile center for learning and sharing knowledge about the "Natural State," Arkansas, as well as camping and outdoor experiences for students. This trailer is loaded with camping gear, outdoor activity equipment and educational materials for a group of up to 25 people. If your students would enjoy camping in state parks and learning camp set-up, outdoor cooking, and participating in hikes, tours, wildlife watching and other activities, the TENT is for you.

There is a small fee for use of the TENT. Total cost varies with food service and other expenses in creating a custom camping experience for your group. To reserve a TENT contact Lake Frierson State Park. Make reservations well in advance, and have a second and third option dates available. Reservations are based upon availability.

K-4 Frameworks:

- ES.2.1 Recognize and classify different types of Earth materials.
- ES.2.2 Describe major features of the Earth's surface and how it is affected by natural changes.
- ES.2.3 Identify the natural divisions of Arkansas.
- ES.3.1 Understand the varied uses of water.
- ES.3.2 Describe uses and conservation of materials taken from the Earth.

- ES.3.3 Identify the effects humans have on the environment (use and misuse.)
- LS.2.1 Identify and compare characteristics of living and nonliving things.
- LS.2.4 Recognize patterns and characteristics of organisms.
- LS.2.5 Explore the life cycles of organisms.
- LS.2.8 Identify the features of plants and animals that enable them to live in different environments.
- LS.2.9 Define and describe a food chain and food web.
- LS.2.10 Understand that organisms are interdependent.
- LS.3.3 Identify that humans change the environment in ways that can be beneficial or detrimental for themselves and other organisms.

5-8 Frameworks:

- ES.1.1 Identify the components of Earth (rocks, water, and air) and their properties.
- ES.2.4 Understand the effects of weathering and erosion on the Earth's surface.
- ES.2.5 Describe and model the natural divisions of Arkansas.
- ES.3.2 Apply multiple strategies to problem solving.
- ES.3.3 Use appropriate equipment, tools, techniques, etc. in science investigation.
- ES.3.6 Analyze the effect of human activity on Earth, and demonstrate the methods of conservation and recycling of Earth's resources.
- ES.3.8 Illustrate the positive and negative effects of human use of natural resources on Earth.
- LS.1.4 Generate conclusions based on evidence acquired through experimentation.
- LS.2.3 Arrange organisms into groups according to similarities and differences.
- LS.2.9 Explain how physical and behavioral characteristics of organisms help them to adapt and survive in their environment.
- LS.2.11 Analyze ecosystems in terms of population relationships, food webs, energy flow, and biotic succession.
- LS. 2.12 Evaluate human impact on the environment.





Written by Nikki Cherry, Superintendent,
Lake Frierson State Park

Richard Davies, Executive Director,
Arkansas Department of Parks & Tourism

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Jay Miller, Administrator, Program Services

Arkansas Department of Parks and Tourism
State Parks Division

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Little Rock, AR 72201

(501) 682-1191

www.ArkansasStateParks.com



First edition, 2004

LAKE FRIERSON STATE PARK

School Group Reservation Form

Contact Information:

School Name: _____

Contact Person: _____

School Address: _____

City: _____ State: _____ ZIP: _____

Daytime Phone: _____

Fax: _____

Email: _____

_____ # of Students

_____ # of Teachers/Chaperones

Dates of Field Trip:

1st Choice: _____

2nd Choice: _____

3rd Choice: _____

Arrival Time: _____

Departure Time: _____

Program Request:

In – Park Programs Only

_____ Dogwood Lane Trail Hike _____ Exploring Wildflowers!

Program Request:

In-School or In-Park Programs

- _____ Black Bears of Arkansas
- _____ Formation of Crowley's Ridge
- _____ Migration Headache
- _____ Native Plants of Arkansas
- _____ There's Something Fishy Going On
- _____ Who Polluted the Lake?

Special Programs:

_____ I am interested in a specific program or topic not listed above.

I would like a program on: _____

_____ I am interested in a program using the Traveling Education Nature Trailer. Please contact me with further information.

Please list any special accommodations or needs your class may have:

Return this form to:
Lake Frierson State Park
7904 Highway 141
Jonesboro, AR 72401
Phone: (870) 932-2615
Fax: (870) 932-1919