



A 402 Roper Mountain Road  
Greenville, SC 29615

P 864.355.8900 F 864.355.8948

[RoperMountain.org](http://RoperMountain.org)



# FIRST GRADE

## Year-Round Adventure

This 3-part rotation will move around to different parts of Roper Mountain in order to provide students with an exciting overview of the first grade science standards. Students will enjoy a Planetarium show, Auditorium live demonstration and visit the Living History Farm or Environmental Science Building.

**SPACE LIMITED**

### Your action packed adventure day will include:

#### WOW Science

Hipp Auditorium — 35 Minutes



Our science show extravaganza will touch on multiple first grade science standards. Be dazzled by our sound and light demonstrations! Get ready to learn about unusual animals and marvel at their special characteristics that help them survive!

Science Standards: 1-PS4-1, 1-PS4-2, 1-PS4-3, 1-PS4-4, 1-LS1-2, 1-LS3-1

**AND**

#### Magic Tree House: Space Mission

Hooper Planetarium and Giant Dome Theater— 45 Minutes

Peek into the tree house and follow Jack and Annie on an exciting adventure as they meet an astronomer and an astronaut who guide them along a fun-filled journey to discover the secrets of the Sun, Moon, planets, space travel and more.

Science Standards: 1-ESS1-1

**AND**

#### Farm Discovery

Living History Farm — 60 Minutes



What came first? We need your help to solve a real world chicken story down on our Farm. Students will learn about chicken behaviors and observe if chicks are like their parents as we visit our big barn. In our gardens and historic buildings we will explore goods and services over time while using our math skills to determine if our “chicken business” will be a success or not.

Science Standards: 1-LS1-2, 1-LS3-1 Social Studies: 1.G3, 1.E.2

Math Standards: 1.ATO.1

**OR**

#### Animal and Plant Powers

Environmental Science Building — 60 Minutes



Using live animals and our interactive exhibits, students will learn how animals use their bodies and powers to help them survive, grow, and meet their needs. Students will also explore our transpiration tree exhibit and our pollinator garden to discover different plant parts that help them survive and grow.

Science Standards: 1-LS1-1

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# FIRST GRADE

## First Grade “May Days”

An exciting day awaits as you and your students participate in hands-on learning experiences specifically tailored to first grade learners.

**These lessons are offered ONLY in May. Space is limited so these “May Days” will be scheduled on a first come, first served basis.**

**Choose one of the following three options for your day-long experience:**

### 1. Light & Sound

Only Available in May

In this day-long exploration, students will discover the properties of light and sound through hands-on experiments in our Symmes Hall labs as well as enjoy an interactive presentation on space and light in the Hooper Planetarium.

#### Magic Tree House: Space Mission

Hooper Planetarium and Giant Dome Theater

Peek into the tree house and follow Jack and Annie on an exciting adventure as they meet an astronomer and an astronaut who guide them along a fun-filled journey to discover the secrets of the Sun, Moon, planets, space travel and more.  
Science Standards: 1-ESS1-1

**Along with the Planetarium show, your day also includes the following experiences:**

#### Turn It Up

Symmes Hall of Science — 30 Minutes

New!

The sound system in our city park is too quiet for concerts! Students will help us solve this problem by testing a variety of materials and deciding how each affects our speaker’s sound. After this hands-on testing, students will select the best material to improve the sound system. Along the way they will explore vibrations, compare different tuning forks, and experience sound in a whole new way!

Science Standards: 1-PS4-1

#### Recycling Sense

Symmes Hall of Science — 30 Minutes

Help us clean up the playground! This hands-on experience will demonstrate how light interacts through different real-world materials (translucent, transparent, and opaque). Students will investigate materials using their eyes and a flashlight. Then they will determine which materials are recyclable using our special light sensor! They will be rewarded with an illuminating surprise!

Science Standards: 1-PS4-3

#### Garden Party

Symmes Hall of Science — 30 Minutes

Seize the daylight! Students will use an interactive shadow box to explore the patterns of day and night and observe what happens when objects block the path of light. They will use their observations to determine the best place for a garden in the park to help the plants grow big and strong!

Science Standards: 1-PS4-2, 1-PS4-3, 1-ESS1-1

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OR

## 2. Down on the Farm

Only Available in May

In this day-long exploration, students will move throughout the Living History Farm to learn about plant structures, land use, and natural resources as they interact with our farm animals, explore the gardens and discover artifacts from our community in our 200 year old cabins, as well as enjoy an interactive presentation on space and light in the Hooper Planetarium.

### Magic Tree House: Space Mission

Hooper Planetarium and Giant Dome Theater

Peek into the tree house and follow Jack and Annie on an exciting adventure as they meet an astronomer and an astronaut who guide them along a fun-filled journey to discover the secrets of the Sun, Moon, planets, space travel and more.  
Science Standard: 1.E.3A.3

**Along with the Planetarium show, your day also includes the following experiences:**

### Growing Garden

Living History Farm — 25 Minutes

Discover the structures that help plants grow and reproduce while also helping with traditional children's chores as they learn what it takes to make a garden grow. In the case of severe weather, this lesson will take place in the one room schoolhouse.

Science Standard: 1-LS1-1 Social Studies Standards: 1.G.3, 1.E.2

### Cabin Life in the 1800s

Living History Farm — 25 Minutes

Students will discover the natural resources required to build and maintain a 19th Century farm as they participate in a number of hands-on tasks and handle artifacts that will give them a feel for what it was like to be a pioneer in our community in the 1800s.

Social Studies Standards: 1.H.3

### Farm Animal Fun

Living History Farm — 25 Minutes

Students will participate in the care and feeding of our barn animals, have a chance to milk our imitation cow and also make butter as we compare how goods and services have changed over time.

Social Studies Standards: 1.E.2, 1.H.3

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# FIRST GRADE

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OR

## 3. Natural Science

Only Available in May (half-day)

Discover the wonders of nature as you spend 2 hours exploring our Harrison Hall of Natural Science while rotating through six exciting, standards-based lessons. Your students will have the chance to hold, touch, and closely examine some of our most popular resident creatures while moving from one interactive exhibit to another.

Science Standards: 1-LS-1, 1-LS1-2

**The Natural Science Grouping includes the following half-day of mini lessons:**

### **Creatures by the Seashore**

[Harrison Hall of Natural Science](#)

Students will discover how coastal creatures survive as they explore the aquariums and interact with a variety of marine animals in our touch tanks.

### **Plants of the Rainforest**

[Harrison Hall of Natural Science](#)

Students will examine a variety of everyday products such as cinnamon, ginger, cocoa, vanilla and others that come from plants that grow in the rainforest.

### **Rainforest Exploration**

[Harrison Hall of Natural Science](#)

In this immersive exploration of the rainforest, students will learn about the characteristics of this unique habitat and get up close with some of the live animals and plants that live there.

### **South Carolina Environments**

[Harrison Hall of Natural Science](#)

While exploring the Ecology Lab, students will examine how animals survive in a variety of SC environments including mountain streams, beaver ponds, cypress swamps, and salt marshes.

### **Island Survival**

[Harrison Hall of Natural Science](#)

New!

Students will explore island life and what structures animals and plants must have in order to survive there.

### **Butterfly Garden Discovery**

[Outdoor Butterfly Garden](#)

Take a guided tour of our beautiful outdoor Butterfly Garden and observe the different parts of plants that help butterflies survive and reproduce. In the case of inclement weather, this lesson will take place in the Discovery Lab.



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# Roper Mountain

## 2022-2023 Scheduling Request Form

**Mail form to:**

Roper Mountain Science Center  
 Education Office  
 402 Roper Mountain Road, Greenville, SC 29615

**Or email form to:**

Elementary [abuckmaster@greenville.k12.sc.us](mailto:abuckmaster@greenville.k12.sc.us)  
 Middle [liphilli@greenville.k12.sc.us](mailto:liphilli@greenville.k12.sc.us)

**Questions?**

Elementary **864.355.8967**  
 Middle **864.355.8925**

### Priority Registration Deadline September 9, 2022

We will continue to accept registrations after original priority deadline expiration.

School: \_\_\_\_\_ District: If not Greenville County Public School \_\_\_\_\_

Mailing/Billing Address: Required if not Greenville County Public School \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Please rank (1-9) the months you prefer to visit. Do not rank months you are not willing to attend

\_\_\_ Sept. \_\_\_ Oct. \_\_\_ Nov. \_\_\_ Dec. \_\_\_ Jan. \_\_\_ Feb. \_\_\_ Mar. \_\_\_ Apr. \_\_\_ May

### Teacher One

Name: \_\_\_\_\_  
first last

E-mail: Please print clearly \_\_\_\_\_

Grade: \_\_\_ # Students: \_\_\_  Check here for no picnic

**First Grade****Year-Round**

Year-Round Adventure

**May Only** (please rank)

Light & Sound **OR**  Down on the Farm **OR**

Natural Science

**Second Grade** (please rank)

Option A **OR**  Option B **OR**  Option C

**Third Grade** (please rank)

Natural Science Discovery **OR**  Farm and Science Discovery

**Fourth Grade** (please rank)

Life Science & History **OR**  Physical Science & Astronomy

**Fifth Grade** (please rank)

Matter **OR**  Earth & Ecosystem **OR**  "Sea" It In a Day

**Sixth - Eighth** (please rank)

List learning labs in YOUR grade level (**Grades 6 - 8**) you would like to attend in order of preference with 1 being your first choice.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Special education teachers:**

Please list the instructional level of students and any special requirements.

\_\_\_\_\_

### Teacher Two (sharing bus)

Name: \_\_\_\_\_  
first last

E-mail: Please print clearly \_\_\_\_\_

Grade: \_\_\_ # Students: \_\_\_  Check here for no picnic

**First Grade****Year-Round**

Year-Round Adventure

**May Only** (please rank)

Light & Sound **OR**  Down on the Farm **OR**

Natural Science

**Second Grade** (please rank)

Option A **OR**  Option B **OR**  Option C

**Third Grade** (please rank)

Natural Science Discovery **OR**  Farm and Science Discovery

**Fourth Grade** (please rank)

Life Science & History **OR**  Physical Science & Astronomy

**Fifth Grade** (please rank)

Matter **OR**  Earth & Ecosystem **OR**  "Sea" It In a Day

**Sixth - Eighth** (please rank)

List learning labs in YOUR grade level (**Grades 6 - 8**) you would like to attend in order of preference with 1 being your first choice.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Special education teachers:**

Please list the instructional level of students and any special requirements.

\_\_\_\_\_

