

# 5<sup>TH</sup>

## Fifth Grade



A typical Fifth Grade visit will consist of two 90-minute learning labs, one at 9:30am and a second one at 11:45am Lunch will be scheduled as part of your visit.

### **Owl Pellet Dissection Lab** Natural Science Classroom — 90 Minutes

**EQ: What role does a Barn Owl play in a food web?**

Dissecting an owl pellet reveals the organisms in the owl's food web, as well as illustrating their niche in ecosystems. Unravel the secrets of the woods at night by dissecting the fuzzy clue of an owl pellet. Each student will keep their own dissected pellet for further investigation. **Science Standards: 5.L.4B**

### **A Challenging Mixture!** Chemistry Lab — 90 Minutes

**EQ: What are the characteristics of a mixture?**

Students have been hired by RMSC Recycling Company! While on the job, they will learn how to recognize a mixture by its physical properties and then use methods such as filtration, sifting, magnetism, chromatography, and flotation to separate a mixture back into its original state. Working in teams, students will devise a plan and carry out the processes for separating a large mixture of common recyclable materials into their original components. At quitting time students will combine their efforts and total their earnings for a class paycheck! **Science Standard: 5.P.2B.6**

### **Reconstruction in South Carolina** Living History Farm and One-Room School — 90 Minutes

**EQ: How did Reconstruction affect the way of life in the South?**

Students will visit historic cabins and the one-room schoolhouse to gain a better understanding of life after the Civil War. They will experience a one-room school lesson, work with cotton, and play a simulation game to become more familiar with sharecropping and the effects of Reconstruction on the South. **Social Studies Standard: 5-1.2, 5-1.4**

Continued on next page.



**Roper Mountain  
Science Center**

A 402 Roper Mountain Road  
Greenville, SC 29615

P 864.355.8900 F 864.355.8948

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

 GREENVILLE COUNTY  
**SCHOOLS**  
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# 5<sup>TH</sup>

## Fifth Grade Continued

Continued from previous page.



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### Explorobotics — Exploring Speed! STEM Lab — 90 Minutes

**EQ: How does position and speed affect the travel of an object?**

The mission to Mars starts now! Students will work as international space agency teams to complete their mission to survive on Mars by exploring position, direction and speed. Using programmable LEGO robot technology, student teams will work collaboratively to collect and analyze data to program their rover to design a solution to complete their missions. Students will engage in hands-on problem-solving, computational thinking and the engineering process to complete their mission to survive on Mars!

**Science Standards:** 5.P.1A.5; 5.S.1A.5; 5.S.1B.1

### Spy Academy: Unbalanced Forces STEM Lab — 90 Minutes

**EQ: How can devices be engineered or modified to take advantage of changes in force, mass, or friction to change the motion of an object?**

Calling all agents! The world's top spy, 00Roper, has gotten into some trouble while stealing Dr. Ollie's plan for world domination from his secret island laboratory. Students will take on the role of spy agents-in-training and have to work together to engineer, implement, and modify gadgets to save him. They will learn about the relationships between force, friction, and motion using robots (Spheros) and message-sending rockets. The agents will use what they learn to design a way to save the day! **Science Standards:** 5.P.5A.3; 5.P.5A.4

### Low Ropes, High Adventure Outdoors — 90 Minutes (weather permitting)

**\*Waiver required**

Discover the importance of collaboration and creative problem solving as your students navigate their way through a series of highly interactive challenges that take place on our outdoor Low Ropes Adventure Course. Every element requires students to work cooperatively in small groups as they complete a series of physical activities while recognizing the positive attributes of themselves and others. **South Carolina Physical Activities Standards:** 5-4.1, 5-4.3, 5-4.4, 5-4.5

Made possible by: **FLUOR**®



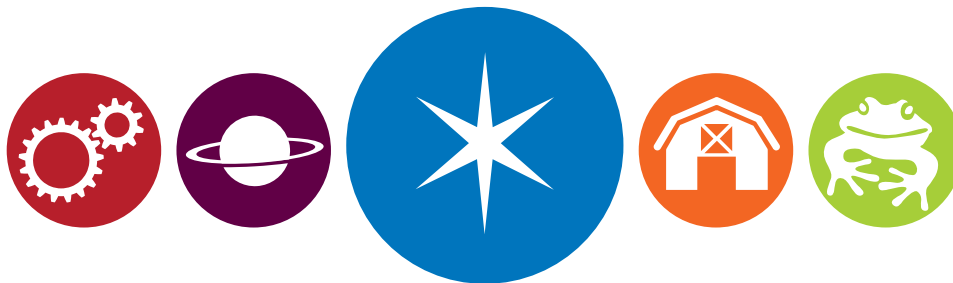
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# Roper Mountain Science Center 2017–2018 Scheduling Request Form

**Please note:**

For Grades 4 – 12 you will be scheduled for TWO learning labs/day unless you check HERE \_\_\_ indicating you only want one learning lab.

**Mail form to:**

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

**Or fax form to:**

864.355.8950 or 8948

## Registration Deadline September 4, 2017

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**

Adventure Day

**Second Grade (please rank)**

Option A **OR**  Option B

**Third Grade**

SC In A Day

**Fourth - Twelfth (please rank)**

List learning labs in YOUR grade level (**Grades 4 – 12**) you would like to attend in order of preference with 1 being your first choice. Please **do not** list learning labs you aren't willing to attend.

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

**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**

Adventure Day

**Second Grade (please rank)**

Option A **OR**  Option B

**Third Grade**

SC In A Day

**Fourth - Twelfth (please rank)**

List learning labs in YOUR grade level (**Grades 4 – 12**) you would like to attend in order of preference with 1 being your first choice. Please **do not** list learning labs you aren't willing to attend.

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

**Special education teachers:** Please list the instructional level of students and any special requirements. \_\_\_\_\_