

# 6<sup>TH</sup>



A 402 Roper Mountain Road  
Greenville, SC 29615

P 864.355.8900 F 864.355.8948



## MIDDLE SCHOOL ASSEMBLY COMBINATIONS

### EXPLORING EARTH'S SYSTEMS

**Schedule up to 300 students on the same day  
10:00am to 12:15pm**

Divide your classes into two groups (up to 150 students each) and attend two incredible shows back-to-back in the Auditorium and Hooper Planetarium and Giant Dome Theater. Greenville County students are free. Other students are \$12 for the assembly combination. Lunch will be scheduled from 12:15pm - 12:45pm.

## 6th Grade

### Clouds, Climates and Catastrophes!

Hipp Auditorium — Symmes Hall of Science — 60 Minutes

Join us as we explore the powerful relationships between water, energy, and Earth that lead to the weather conditions we experience in our everyday lives. See giant clouds form before your eyes, lightning jump across the stage from our Tesla coil, temperature changes on screen through an infrared camera, and many other breathtaking demonstrations. Students will gain a better understanding of the hydrologic processes in the atmosphere, the effect of warm and cold air masses on weather, and how these processes affect climate on the different regions of Earth.

2014 Science Standards: 6.E.2A.1, 6.E.2A.3, 6.E.2B.2, 6.E.2B.3

Sponsored by: **FLUOR**

## AND CHOOSE ONE of the Hooper Planetarium shows listed below

### “Tales of the Maya Skies”

Hooper Planetarium and Giant Dome Theater — 60 Minutes

“Tales of the Maya Skies” tells the story of how the ancient Maya interwove astronomy and culture to create a stable society that spanned 2,000 years, from 500 BC to 1500 AD. Mayan culture, life, architecture, and legends were intertwined with the ancient Maya’s scientific observation and recording of planetary movements.

Social Studies Standard: 6.2.CC

## OR

### “Dynamic Earth”

Hooper Planetarium and Giant Dome Theater — 60 Minutes

In this highly engaging full-dome show, stunning satellite data visualizations and photorealistic animations are combined to provide unprecedented insights into the inner workings of Earth’s dynamic climate system and the influence that the Earth-Sun system, plate tectonics, and the carbon cycle has upon its energy trails and environmental systems.

2014 Science Standards 6.E.2A.2, 6E.2B

### Both shows include “H2O Cycle”— 15 Minutes

Using live action videography students will be immersed in the steps of the water cycle using the backdrop of the Upstate of South Carolina. The very popular review is set to “rap.” You may find yourself humming it on the way back to school!

2014 Science Standards: 6.E.2A.3

Looking for “Hands-On Labs”?  
Check out the next page.

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



## MIDDLE SCHOOL HANDS-ON LEARNING LABS

**Schedule Up To 150 Students per day**  
**9:30am to 1:15pm**

Divide your classes into six groups to rotate through three different hands-on learning labs. Lunch will be scheduled as part of your visit.

**Sixth grade teachers may request a second visit for an additional unique experience.**

### 6th Grade Energy Lab Experience

#### STEM Lab – The Power to Survive

Only Available September - January

[Symmes Hall of Science – Three 55-minute learning labs](#)

The power is out; communications are down: How will you survive? In this three-part STEM lab, students will engage in hands-on learning to explore energy transformations and conservation of energy. Can wind energy supply the electricity needs? Is solar energy an option? Student teams will analyze data, solve problems, and then design and create solutions for survival through exploring generators, electromagnets and circuits. The interactive labs will include real-time solar energy production. Do your students have what it takes to survive?

Science Standards: 6.P.3.A.1, 6.P.3A.3, 6.P.3A.4, 6.S.1A.2, 6.S.1A.4, 6.S.1A.6

OR

### 6th Grade Organisms and Earth Systems Lab Experience

#### Bioblitz (Biodiversity Inventory)

Only Available January - May

[Environmental Science and Sustainability Building](#)

[Three 55-minute learning labs](#)

Decades ago, toxic dark sludge spilled into an upstate river. The Roper environmental law firm needs our help in assessing any lingering environmental damage before another riverfront park is built. Students will work as a Bioblitz Investigative Team to examine life in this contaminated area. Students will determine the health of the water by getting hands on with live invertebrates and creatures too small to see with the naked eye. Lab results from a large rainfall simulator will also be used to help the team create an EPA Superfund cleanup plan.

Science Standards: 6.L.5A.1, 6.L.1A.2, 6.L.4A.2, 6.L.4B.2, 6.E.2A.3

Want to bring more students at once?  
Check out the Middle School  
Assembly combination.

[CLICK HERE FOR REGISTRATION FORM](#)



# 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)

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