

# 6<sup>TH</sup>



## 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 delve into the intricate connections between water, energy, and Earth, shaping the weather we encounter daily. Witness the spectacle of giant clouds forming, lightning crackling from our Van De Graaff Generator, real-time temperature shifts captured by an infrared camera, and other captivating demonstrations. Students will gain insights into the atmosphere, water cycle, the impact of warm and cold air masses on weather patterns, and their broader effects on regional climates.

Science Standards: 6-ESS2-4, 6-ESS2-5, 6-ESS2-6

## 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.

Science Standards 6-ESS2-1, 6-ESS2-4, 6-ESS2-5, 6-ESS2-6

A 402 Roper Mountain Road  
Greenville, SC 29615

P 864.355.8900

**RoperMountain.org**

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## 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 Physical Science Lab Experience

#### Hands-On Engineering: Shape the Future of Roper Mountain

New!

Only Available September - January

Symmes Hall of Science

Three 55-minute learning labs

Calling all engineering enthusiasts! We need your creative skills to brainstorm exciting ways to elevate the Roper Mountain experience for students and visitors. Join us in this adventure where your class can dive into hands-on activities with our cool materials and tools, all while investigating scientific concepts of matter, energy and waves!

- Explore heat transfer using thermal cameras and experiment with insulators and conductors to design a safe glove to handle dry ice.

Sponsored by: **FLUOR**

- Program LEGO Spike Prime robots to simulate animal responses to different stimuli, linking robotics with biological concepts and creating an interactive "Robot Zoo."

Sponsored by: **FLUOR**

- Experiment with speakers and lights to optimize sound and light design across Roper Mountain.

Sponsored by: *Milliken*

Science Standards: 6-PS1-4, 6-PS3-3, 6-LS1-8, 6-PS4-2

## OR

### 6th Grade Life and Earth Science Lab Experience

#### Cataclysmic Collisions

Only Available January - April

Environmental Science and Sustainability Building

Three 55-minute learning labs

**Crater Chronicles, Cellular Collapse, Bones From the Blast** - Asteroids and comets in Earth's long history have struck earth creating cataclysmic events and causing mass extinctions. Paleontologist apprentices will be needed and trained to help look at present life forms, fossils of past life, and other clues to what events from these geoscience processes caused the extinction of most life forms - from one-celled organisms to dinosaurs. These apprentices will also model those impacts from catastrophic events that changed the earth's surface from the rising of large peaks to volcanoes and meteorite/comet impacts.

Science Standards: 6-LS1-1, 6-LS1-2, 6-ESS1-4, 6-ESS2-2

Want to bring more students at once? Check out the  
Middle School Assembly combination (page 16).

[CLICK HERE FOR REGISTRATION FORM](#)



# Roper Mountain

## 2023-2024 Middle School Scheduling Request Form

Email form to: [liphilli@greenville.k12.sc.us](mailto:liphilli@greenville.k12.sc.us)

Questions? 864.355.8925

### Priority Registration Deadline August 23, 2024

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: \_\_\_\_\_

### Coordinating Teachers

Total # of Students (for all teachers) \_\_\_\_\_

1 - Name: \_\_\_\_\_ first \_\_\_\_\_ last \_\_\_\_\_ Phone \_\_\_\_\_ E-mail: \_\_\_\_\_ Please print clearly

2 - Name: \_\_\_\_\_ first \_\_\_\_\_ last \_\_\_\_\_ Phone \_\_\_\_\_ E-mail: \_\_\_\_\_ Please print clearly

### Grade Level

Please rank (1-4) the months you prefer to visit. Do not rank months you are not willing to attend

6 7 8 \_\_\_\_\_ September/October \_\_\_\_\_ November/December \_\_\_\_\_ January/February \_\_\_\_\_ March/April

### Choose Your Program

Hands on Learning Labs

Assembly Combo

Either

#### Hands on Learning Labs (Grade 6 & 7 only - max 150/day)

##### Grade 6

Hands on Engineering

September - January only

Cataclysmic Collisions

January - April only

##### Grade 7

Chemistry

September - January only

Ecology Survival Challenge

January - April only

##### Grade 8

Not Available

#### Auditorium & Planetarium Assembly Combo (Max 300/day)

##### Grade 6

Clouds, Climates and Catastrophes! AND

"Dynamic Earth" OR

"Tales of the Maya Skies"

##### Grade 7

Way Cool Science! and "Habitat Earth"

##### Grade 8

Forces, Impacts and Energy and

"Earth's Place in the Universe"

##### Optional Lunch - Assembly Combo Only

Lunch is available from our cafe immediately following your program. Check here to indicate if you will be staying for lunch.

Staying Not Staying

### OFFICE USE ONLY

\_\_\_\_\_ Date Received ☐ Entered Spreadsheet ☐ Entered Altru

Program Scheduled \_\_\_\_\_ Date \_\_\_\_\_ Email offer \_\_\_\_\_ ☐ Accepted ☐ Declined

Alternative Offer \_\_\_\_\_