



MIDDLE SCHOOL ASSEMBLY COMBINATIONS

MATTER, ENERGY AND ECOSYSTEMS

**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.

7th Grade

Fire and Ice — Physical and Chemical Changes in Matter



Hipp Auditorium — Symmes Hall of Science — 60 Minutes

Watch your students' reactions as they classify unknown changes as physical or chemical through our exciting, interactive demonstrations! Witness fire, explosions and extreme temperatures. We'll explore physical properties, the law of conservation of matter, and witness the effects of dangerous temperatures on different states of matter. Students will get an up close and personal view of chemical reactions, changes in states of matter, and acids and bases revealed by dramatic indicator changes.

Science Standard: 7-PS1-2, 7-PS1-5, 7-PS1-6

AND

“Habitat Earth” Living in a Connected World

Hooper Planetarium and Giant Dome Theater – 45 Minutes

Living networks connect and support life forms large and small—from colonies of tiny microbes and populations of massive whales to ever-expanding human societies. Discover what it means to live in today's connected world. Dive below the ocean's surface to explore the dynamic relationships found in kelp forest ecosystems, travel beneath the forest floor to see how Earth's tallest trees rely on tiny fungi to survive, and journey to new heights to witness the intricate intersection between human and ecological networks.

Science Standards: 7-LS2-1, 7-LS2-2, 7-LS2-3

In addition, students will also experience:

Ecosystems

Hooper Planetarium and Giant Dome Theater – 15 Minutes

Ewww, a maggot. But it's only a decomposer! Students love to be “grossed out” and at the same time they will learn about the many important roles of living and non-living factors in an ecosystem. The show includes seventh grade terminology such as abiotic, consumer, community, omnivore, food web and many more – from the types of ecosystems to the roles of plants and animals and how it all interrelates.

Science Standards: 7-LS2-1, 7-LS2-2, 7-LS2-3



A 402 Roper Mountain Road
Greenville, SC 29615

P 864.355.8900 F 864.355.8948

RoperMountain.org



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

[CLICK HERE FOR REGISTRATION FORM](#)



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.

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

7th Grade Matter Lab Experience:

Chemistry to the Rescue New!

Only Available September - January

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

In this three-part STEM lab rotation students apply science and engineering skills to help solve problems that have arisen on a research submarine deep in the arctic waters. Students investigate the law of conservation of mass to produce life-saving oxygen from water, test and determine which chemical reactions took place during an unknown leak, and generate and utilize synthetic and natural products to solve an intriguing problem on the sub.

Science Standards: 7-PS1-2, 7-PS1-3, 7-PS1-5

OR

7th Grade Ecosystem Lab Experience:

Ecology Survival Challenge

Only Available February - May

[Environmental Science and Sustainability Building](#)

[Three 55-minute learning labs](#)

Animal Threats, Chemical Threats, Eco Threats-The supervolcano that is located underneath Yellowstone National Park has erupted and a giant cloud of ash will reach Roper Mountain in 4 hours! Time is of the essence as students investigate animal behaviors, water quality, and limited resources to see how the environment would be affected by such a natural disaster.

Science Standards: 7-LS2-4, 7-LS2-1



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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
 Middle 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.

- _____
- _____
- _____

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.

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Special education teachers:

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

