

6TH

Middle School Assembly Combinations



Schedule Up To 300 Students

9:30am to 12:30pm

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 \$10 for the assembly combination.

6th Grade

I've got the Power! — Energy Transformations Hipp Auditorium — Symmes Hall of Science — 60 Minutes

EQ: How is energy transferred from one form to another?

This program will demonstrate the Law of Conservation of Energy, giving students a greater understanding of energy and its relation to the world we live in. Join us as we identify the sources of heat, solar, chemical, and electrical energy and how this energy can be transferred from one form to another. Then experience how powerful this transformation can be! Student volunteers will assist in the demonstrations.

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

AND ONE of the Hooper Planetarium shows listed below

"Tales of the Maya Skies" Hooper Planetarium and Giant Dome Theater — 60 Minutes

EQ: How did the Maya people use celestial observation and recording to discern patterns used to predict and guide their civilization?

"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 BCE to 1500 CE. Mayan culture, life, architecture, and legends were intertwined with the ancient Maya's scientific observation and recording of planetary movements **Social Studies Standard: 6-4.3** Sponsored by: **FLUOR®**

OR

"FORCE 5" Hooper Planetarium and Giant Dome Theater — 60 Minutes

EQ: What weather conditions are required to produce severe storms?

Extreme weather takes center stage in this full-dome animated show revealing images not seen by the naked eye due to their life-threatening nature. Using real movies and NASA based images, Force 5 offers the audience a vantage point that would never be safe in the real world, creating a sense of standing in the middle of a deadly storm. **Science Standards: 6.E.2B.2**

Both shows include "H2O Cycle"— 15 Minutes

EQ: What are the steps in the Water 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!

Science Standards: 6.E.2A.3



**Roper Mountain
Science Center**

A 402 Roper Mountain Road
Greenville, SC 29615

P 864.355.8900 F 864.355.8948

RoperMountain.org

 **GREENVILLE COUNTY
SCHOOLS**
Where Enlightening Strikes!

6TH

Middle School Learning Labs



Schedule Up To 150 Students

9:30am to 1:30pm

6th Grade

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

STEM Lab — The Power to Survive... Symmes Hall of Science — Three 60-minute learning labs

EQ: How can we transform energy to help us if the power goes out?

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

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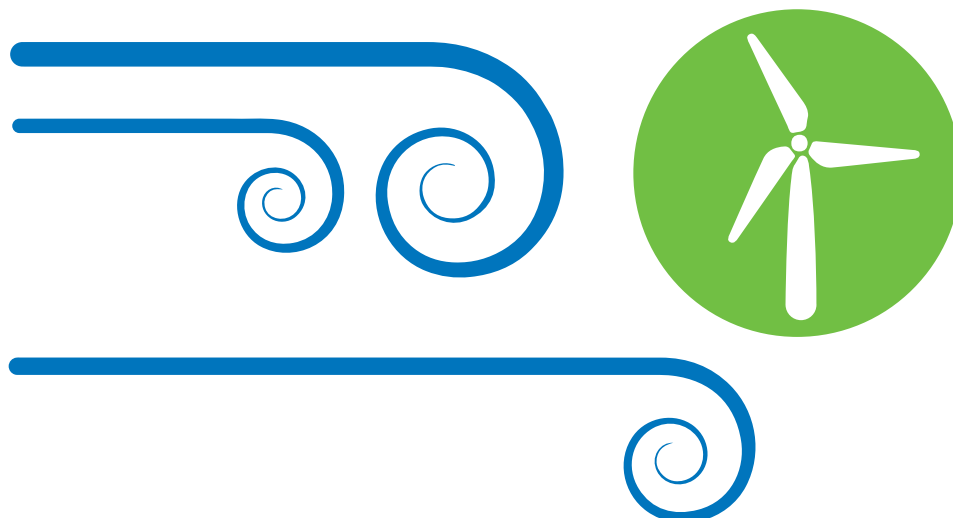
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Science Center**

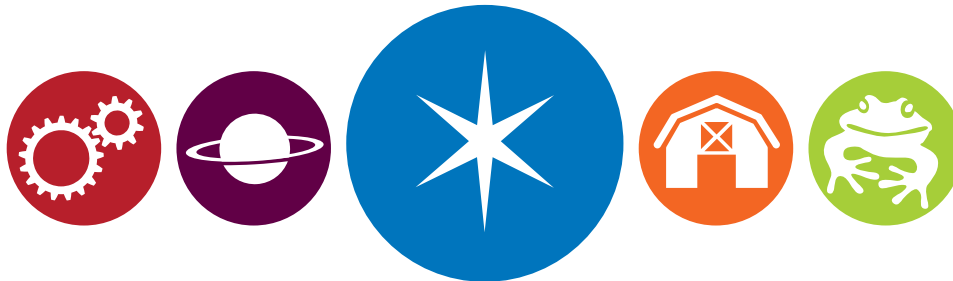
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Roper Mountain Science Center 2017–2018 Scheduling Request Form

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.

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