



FIFTH GRADE

In addition to two different 55 minute learning labs, students will discover Earth's Place in the Universe in our immersive full-dome Planetarium.

“Earth, Moon & Sun” Planetarium Show with a Live Lesson by the Astronomer

Hooper Planetarium and Giant Dome Theater — 55 Minutes

This exciting show, inspired by American Indian oral traditions, will help students learn concepts about the Earth-Moon-Sun system. Learn the basics of solar energy and why the sun rises and sets. Examine the moon's orbit, craters, phases and eclipses. Explore space travel to our moon... and beyond!

Science Standards 5.ESS1-1, 5.ESS1-2

IN ADDITION

The astronomer will use the unique, full-dome Layered Earth program to illustrate specific 5th grade Earth's Systems science concepts including the interactions of the geosphere, biosphere, hydrosphere, and atmosphere.

Science Standards: 5-ESS2-1

**Along with the Planetarium experience,
choose from one of the following two explorations:**

1. Matter Exploration

(see lab descriptions on following page)

Revealing Reactions

AND

Where's the Matter

2. Earth and Ecosystem Exploration

(see lab descriptions on following page)

Conservation Cadets

AND

Eco Detectives

Continued on next page.



A 402 Roper Mountain Road
Greenville, SC 29615

P 864.355.8900 F 864.355.8948

RoperMountain.org



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5TH



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Continued from previous page.

Along with the Planetarium experience, choose from one of the following two explorations:

1. Matter Exploration

Revealing Reactions

New!

Symmes Hall of Science — 55 Minutes

Be the detective! What happened at the food warehouse? Observe active chemical reactions under a microscope and compare physical and chemical properties to see if a new substance formed! Use these clues to reveal the cause of a mysterious fire!

Science Standard: 5-PS1-3, 5-PS1-4

AND

Where's the Matter?

New!

Symmes Hall of Science — 55 Minutes

Can your students solve the problem of the missing materials? In this lab, students will investigate the conservation of matter by observing different reactions on a scale- did the amount of matter change? Where did it go? Students will determine where the missing material went!

Science Standards: 5-PS1-2

OR

2. Earth and Ecosystem Exploration

Conservation Cadets

New!

Environmental Science and Sustainability Building — 55 Minutes

Using interactive Enviroscape models, students will discover how human impacts such as lawn fertilizer, litter, and even your own dogs waste can affect our land and water. With our augmented reality sandboxes, students will also shape and create landforms that impact our environment. Students will walk away as Conservation Cadets with solutions to help protect our Earth!

Science Standards: 5-ESS2-1, 5-ESS3-1

AND

Eco Detectives

Environmental Science and Sustainability Building — 55 Minutes

Students will become wildlife biologists as they examine mystery skulls, scats, and dissected owl pellets of animals in our local ecosystems. Hands-on activities will be used to infer what kind of consumers live in our ecosystems and what they depend upon for food.

Science Standards: 5-LS2-1

Sponsored by:



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FIFTH GRADE

“Sea” It In A Day (January and February Only) 9:30am to 1:15pm

Up to four school classes rotate through four different 45-minute ocean themed learning labs. Lunch will be scheduled as part of your visit.

Deep Sea

Harrison Hall of Natural Science

Did you know that scientists know more about the moon than they do the depths of our oceans? Students will become ocean explorers as they use technology such as augmented reality sand tables and remotely operated vehicles to overcome some of the challenges that come along with discovering hidden landforms on the ocean floor.

Science Standard: 5-ESS2.1

A Muddy Mess!

Interdependent Relationships of the Salt Marsh Ecosystem

Harrison Hall of Natural Science

Step into the wonders of the salt marsh and discover the vital role that it plays in the health of our coastline as students explore the interdependent nature of this fascinating ecosystem. Pluff mud, brackish water and live salt marsh animals will be investigated.

Science Standards: 5-ESS2-2, 5-LS2-1

Coral Reefs

Harrison Hall of Natural Science

In this immersive lesson, students discover the fragile, yet important role the coral reef ecosystem plays in the health of our oceans. Through hands-on interaction with live ocean animals in our touch tanks, students will discover the variety of animals the ocean supports.

Science Standards: 5-LS2-1, 5-ESS2-1

Marine Energy Flow

Harrison Hall of Natural Science

Energy flows between organisms large and small in our vast oceans. Students will put their powers of observation to the test as they examine marine life up close using live specimens and microscopes. Students will analyze the flow of energy, as well as our role in the growing plastic dilemma in our oceans.

Science Standards 5-LS2-1



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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.

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

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May Only (please rank)

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Natural Science

Second Grade (please rank)

Option A **OR** Option B **OR** Option C

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