



FIFTH GRADE

9:30am to 1:15pm

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 planetarium program to explore stellar distances and apparent brightness, patterns of day and night, and the seasonal appearance of some stars in the night sky.

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

**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

RoperMountain.org



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5TH



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FIFTH GRADE

Continued from previous page.

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

1. Matter Exploration

Revealing Reactions

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

Sponsored by: **FLUOR**

AND

Where's the Matter?

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

Using interactive Enviroscape models, students will discover how human impacts such as lawn fertilizer, litter, and even your own dog's waste can affect our land and water. They will also test solutions to these problems to help save the Earth. Finally, students will have the opportunity to see how Earth's systems interact through our amazing AR Topographic Sand Tables.

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

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 (December and January 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.

Island Explorers

Harrison Hall of Natural Science

Students will explore the interactions of geosphere, hydrosphere and biosphere of a distant island as they study live animals, and use technology such as augmented reality sand tables and remotely operated vehicles to discover how life prevails under such unique and sometimes harsh conditions.

Science Standard: 5-ESS2-1

Sponsored by:  **BOSCH**

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

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

2024–2025 Elementary Scheduling Request Form

Email form to: abuckmaster@greenville.k12.sc.us

Questions? [864.355.8967](tel:864.355.8967)

Priority Registration Deadline August 23, 2024

We will continue to accept registrations after original priority deadline expiration.

- Please fill out forms for each teacher and class (ex. 6 Classes = 3 Forms...)
- All teachers on a grade-level should submit requests together if they want to be scheduled together (if possible). Include Special Education classes if needed.

School: _____ District: If not Greenville County Public School _____

Mailing/Billing Address: Required if not Greenville County Public School _____

City: _____ State: _____ Zip: _____ Phone: _____

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 (1st Grade only)

Teacher

Name: _____
first last

E-mail: Please print clearly _____

Grade: ___ # Students: ___

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 Experience

Fifth Grade (please rank)

Matter OR Earth & Ecosystem OR "Sea" It In a Day

Special education teachers:

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

Teacher

Name: _____
first last

E-mail: Please print clearly _____

Grade: ___ # Students: ___

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

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Life Science & History OR Physical Science Experience

Fifth Grade (please rank)

Matter OR Earth & Ecosystem OR "Sea" It In a Day

Special education teachers:

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

OFFICE USE ONLY

_____ Date Received Entered Spreadsheet Entered Altru

Program Scheduled _____ Date _____ Email offer _____ Accepted Declined

Alternative Offer _____ Received