A photograph of two young boys in a classroom setting. The boy on the left, with dark hair and wearing a blue shirt, is holding a human skull. The boy on the right, with light hair and wearing a pink shirt, is looking at the skull with interest. They are both leaning over a table. In the background, other children are partially visible. The image is set against a blue and green geometric background.

EDUCATOR GUIDE

GwinnettEHC.com
EHCeducation@GwinnettCounty.com
Phone: 770.904.3500 | Fax: 770.932.3041



WELCOME

Our educational programs provide a unique atmosphere for learning and for environmental stewardship across the county. Every student benefits from the long-standing relationship between Gwinnett County Public Schools and Gwinnett Parks and Recreation.

We strive to transform the concepts of science and history into interactive, learn-by-doing experiences. Exposure to nature, history, and alternative surroundings allow students to see and embrace critical academic concepts in different ways. With hikes, outdoor classrooms, historic sites, and a state-of-the-art laboratory, experiences with us are unique.

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Building Brains (B2) Anywhere is a countywide Shirley Carver Miller Learning Initiative to serve children, parents, and caregivers in Gwinnett by providing safe and engaging early learning opportunities from birth to age eight. B2 Anywhere works with various partners such as Gwinnett County Public Schools and their Building Babies' Brains Initiative. B2Anywhere.com



GSE/AKS Standards Based Learning

All K – 12 quest, field study, and outreach programs are aligned with current Georgia Standards of Excellence (GSE), and the Gwinnett County Academic Knowledge and Skills Curriculum (AKS). The programs also support the Georgia Career Clusters Pathways, particularly agriculture, food, and natural resources; energy; science, technology, engineering, and math (STEM).



PLANNING YOUR VISIT

Our top-quality field study programs are very popular and dates fill quickly. Reservations are required. Most programs involve two hours of instruction but can be customized to fit each school's needs.

A limited number of participants and social distancing measures will be practiced.

STEP ONE: CONTACT US TO CHOOSE DATE AND LOCATION

EHCEducation@gwinnettcountry.com | 770.904.3500

STEP TWO: CHOOSE A MUSEUM/FOREST QUEST, EXPLORATORY FIELD STUDY, OR BOTH!*

Once a date is selected and approved, simply choose your program(s). Return the completed reservation form, and our knowledgeable staff will take it from there. We strive to meet the needs of all visitors; please include any special accommodations at this time.

**Doing both programs will require a four-hour visit and additional cost.*

STEP THREE: PAY THE DEPOSIT

Program dates are not secured until the \$50 deposit is received. A final invoice with the balance due will be provided the day of your visit. The balance is due upon arrival.

CANCEL/RESCHEDULE:

- If unforeseen rescheduling becomes necessary, every effort will be made to accommodate. However, our programs are very popular and the calendar fills quickly; available dates will be limited.
- Programs will only be rescheduled due to inclement weather/forecast if there is a school system-wide closure. If rescheduling is not possible, the deposit will be refunded.

PROGRAM FEES

Grade Level	Fees* per student/chaperon
Pre-K – High School	\$8
High School Lab	\$9

**A \$20 per group, per day non-Gwinnett fee will apply. Teachers/staff (with a valid school ID) accompanying students on field studies are free!*

LOCATIONS

- Environmental & Heritage Center, Buford
- McDaniel Farm Park, Duluth
- Isaac Adair House, Lawrenceville
- Lawrenceville Female Seminary, Lawrenceville
- Freeman's Mill Park, Lawrenceville

Some programs are available at additional park locations, weather and date permitting.

VIRTUAL FIELD STUDIES*

High-quality programming to your devices!
\$100/class (\$20/non-Gwinnett resident fee applies)
Email: EHCEducation@GwinnettCounty.com
or call 678.765.4680

BEFORE YOUR VISIT:

- Minimum class size is 15 students; maximum daily program capacity varies.
 - Programs are held rain or shine. Please ensure that everyone dresses for the weather.
 - Since we're connecting with nature, open toe shoes are not advised. Sneakers are the best option.
 - Chaperones MUST pay through the school prior to arrival.
 - Chaperones are to actively assist – other children/babies are not permitted.
- Bring the family back later!*

DURING YOUR VISIT:

- Teachers must accompany their class.
- Late arrival may reduce program time.

Please follow all public health guidance.



QUESTS



Discover the many STEAM concepts found in the forests of your local park or in the museum of the Gwinnett Environmental and Heritage Center. We're engaging students in two hour, guided rotations packed with hands-on activities from exhibits to ecosystems! We uniquely design your school's cross-curricular experience; it's customized to cater to all grade levels! Quests typically involve indoor and outdoor (weather and location permitting) activities, but are subject to change.



**GET A DISCOUNT ON
DISCOVERY DOME OUTREACH!**

See page 16 for details.

FOREST QUEST

Guided two-hour outside (weather permitting) curriculum for grades K – 5. Environmental Science rotating stations.

Georgia Native Plants and Animals

Explore the forest and discover many plants and animals that live in the Piedmont region and how they are connected to each other.

Animal Adaptations

Enjoy a hands-on experience with skins, skulls, and scat to identify physical adaptations that help our forest friends survive in their habitat.

Trees

An up-close study of the forest gives students a better understanding of how trees grow, what they provide, and why we must protect this natural resource.

Rocks and Soil

Get down and dirty in the soil and gain a rich understanding of the importance of rocks and soils found in Georgia.

Hydrology and Stream Exploration

Visit a natural stream, discover the life and energy in its waters, and connect this wet habitat to the forest and its surrounding ecosystem.

MUSEUM QUEST

Guided cross-curricular rotations at the GEHC involving the following stations for grades K – 12.

Water Ways

Explore how humankind interacted with the environment throughout history. Discover how the land and water shaped Georgia's earliest inhabitants – the Cherokee, Creek, and early settlers and explore how our environment and natural resources impact us today.

Discover H₂O

A hands-on exploration of water science, water cycle, states of matter, potential and kinetic energy, water treatment processes, topographic maps, watersheds, and more.

Chesser-Williams House

Discover the art and science of historic preservation, restoration, and conservation. Enjoy an interpretation of daily life on a mid-to-late 1800s Georgia farmstead.

Green Building

Discover this unique, environmentally built museum. Get an up close look at Gwinnett's first LEED certified building featuring current technology and innovative engineering concepts

Outdoor Interpretive Hike

Enjoy a guided walk along the trails and uncover the dynamic environment that many plants and animals call home (weather permitting).

EXPLORATORY FIELD STUDY

Our engaging educators make science and social studies come alive in both indoor and outdoor (weather permitting) settings. Each exciting, two-hour, guided program provides grade-specific curriculum and an in-depth look at a particular unit of study.

Unless otherwise noted, programs take place at the Environmental & Heritage Center.

PRE-K Aligned with the Georgia standards for early childhood education. Outdoor experiences are an integral part of each program.



Forest Detectives

Explore the trees of our forest ecosystem! Investigate what creatures live among the branches and how they depend on the trees for their survival. Dig for clues with a mud exploration in this (mostly) outdoor program. [This program also offered at McDaniel Farm Park, or at a park location near you.](#)

Wild About Weather

Your junior meteorologists go on a weather adventure to explore clouds, storms, and sunny days! They will go on a cloud hike, enjoy educational play, and create a take-home craft. Plus, they'll create clouds and have interactive water cycle fun in the Discover H₂O exhibit.

Georgia Animals In My Backyard

Touch and feel skins and skulls, and learn how to protect our local animal friends. Students discover the differences between local forest animals, enjoy interactive games, and have a playful visit with our resident turtles!

Exhibit Explorers

Little explorers are guided through the exhibits to discover hidden wonders and adventures into the past. They'll venture outdoors to learn about native plants, animals, and insects. This program may include Discover H₂O exhibit.

**GET A DISCOUNT ON
DISCOVERY DOME OUTREACH!**

See page 16 for details.



KINDERGARTEN



Exploring Plants and Animals: Wild and Wonderful Georgia

A hands-in-dirt investigation reveals the forest is full of life! Interactive animal grouping games, hands-on exploration with a vast skins collection, and a difference/similarity discovery walk on the trails gives the opportunity to observe and ask questions about plant and animal life in our forest.

This program also offered at McDaniel Farm Park, or at a park location near you.

Beneath Our Feet: Exploring Rocks and Soil

Dig into the rocks and soil of the forest! Interactive games and exploration have those small kindergarten hands in the soil (and mud) as we observe, touch and weigh nature's wonders beneath our feet.

Exploring Centuries of Childhood: Then and Now*

Discover an authentic 1800s homestead to compare and contrast a child's life in the past to current day. Sort and classify objects found throughout the centuries, enjoy hands-on activities, and play games highlighting clothing, toys, houses, chores, and school in the 1800s and today. This program also offered at Lawrenceville Female Seminary.

Living Life on the Farm: Exploring Rocks and Soil | McDaniel Farm Park

Travel back in time and discover the important role of a farmer. Through fun, outdoor, hands-on activities, students contrast living and non-living items in their role as helpers at McDaniel Farm.



FIRST GRADE



Everything Needs Water

Through hands-in-dirt adventures and team activities, discover the basic needs of plants and animals thriving in Georgia forests. Take a water walk to help hydrate one of the many living things that depend on this precious natural resource for survival. Participate in a "What Belongs In Our Stream" activity to drive home the importance of protecting and preserving streams!

Light, Sound and Living Things

It's an exciting day of discovery with hands-on activities and a guided walk in the forest. Students investigate, and evaluate the many ways Georgia animals and plants use light and sound to meet basic survival needs.

Environmental Heroes: Teddy Roosevelt and GW Carver*

Discover their legacy! Fun, hands-on activities in our heritage garden explore Carver's contributions to agriculture and scientific research. Discover how he used farming techniques like crop rotation, cover crops, and composting for healthy soil. Hike the trails to become a conservationist like Roosevelt and understand the importance of native plants and trees. Hear stories of the famous "Teddy Bear" and learn about Georgia's bears. This program also offered at McDaniel Farm Park.

Early American Heroes: Franklin and Jefferson*

Get immersed in the everyday lives of American heroes that had a passion for science and the environment. Educators in period attire demonstrate some of Franklin's inventions and students dig in our heritage garden like Jefferson did at his family home. Strike out on a "respect the environment" hike and use artifacts and replicas to understand the differences/similarities of everyday life from then to now.

Weather and Climate

Identify different forms of precipitation, investigate cloud identification, and explore how native Georgia animals react and adapt to different weather situations. Experiment with several weather instruments, visit Discover H₂O and identify current weather conditions on an interpretive hike.

Magnetism Matters

It's magnetic! Through interactive games and activities, investigate the strengths and everyday uses of magnets, learn why iron is important in daily diets, discover how magnets are used for navigation, and view the earth's magnetic field through the eyes of a bird.

SECOND GRADE



Exploring Environmental Changes

Investigate how to protect local ecosystems and the impact weather, air, land, and water pollution have on the environment. Discover the necessity of community involvement in protecting ecosystems through a forest and river clean-up simulation!

A Pollinator's Life: Bees, Bats, and Birds

Investigate life cycles and diversity of life through the honeybee, bat, and hummingbird, which are important pollinators that support agricultural and natural systems. Through exploration centers, learning activities, and a guided walk in the forest, discover the benefits of these animals and the impact of environmental changes.



Matter Matters*

Explore the three states of matter, compare and contrast the different properties of matter, and have fun discovering how solids, liquids, and gases really do “matter” in nature. Program includes an exploratory hike and a visit to Discover H₂O.

Georgia's Native People

Discover the heritage of the Cherokee and Creek people by understanding how they adapted to and were influenced by the environment. Compare and contrast their way of life to today. Explore the science behind the Three Sisters Garden. Understand the contributions of Sequoya and learn how tools of the day were used to print the first Native American newspaper. Create a model of a Native American home using local and natural resources! This program also offered at McDaniel Farm Park.

THIRD GRADE



Pollution and Solutions*

Hands-on investigations, activities, and a walk through the forest to the stream, allow students to explore different forms of pollution, determine what is causing these strains on our planet, and formulate solutions to pollution!

Mineral Mania

What's the difference between rocks and minerals? How are minerals transformed by water and wind? How do soil and mineral properties shape daily life? Many questions are answered as students get their hands on marvelous minerals, investigate the physical attributes of rocks, soil, and minerals, go on an exploratory trail hike, and map the mineral resources of our state.

Native Knowledge and Colonial Impact

Compare and contrast how Native American cultures and early colonists interacted with different environments to produce food, clothing, and shelter. Explore an early Native American rock shelter and investigate soils collected from locations important to early Georgia. An in-depth discovery of the Chesser-Williams House and its heritage garden highlight the importance of climate and geography to Native Americans and early settlers. Use reproduction tools and technology to examine everyday life and survival resources.

Adapting to Georgia's Habitats and Regions*

Through hands-on outdoor adventures, investigate and differentiate a wide variety of plants, animals, and habitats that are unique to each region of Georgia. Research the physical features of some important Georgia animals and uncover how these adaptations allow them to survive and thrive. A hands-in-mud activity provides evidence of how animals depend on their adaptations, and an exploratory forest hike gives the opportunity to discover unique plants found in the Piedmont.

FOURTH GRADE

Extreme Weather*

Meteorology is better understood after experiencing the fury of nature in the Discovery Dome Theater's, Force Five weather program. Interactive stations engage students with weather equipment, a cloud study, weather scenarios that reinforce frontal systems, and more. A visit to the Discover H₂O exhibit along with an exploratory nature hike gives students an up-close view of how water (and weather) shape our world.



STEAM Exploration: Simple Machines, Physical Geography, and the American Revolution*

Discover the impact of physical geography, math, and engineering on key battles. Emphasizing simple machines and period technology, hands-on experiences replicate the activities that groups like the Daughters of Liberty and tradespeople adopted to support the call for independence. Educators in period attire share accounts of the civic contributions of John Adams, Thomas Jefferson, and Benjamin Franklin. Explore how period scientific concepts influenced the drive for independence and participate in a lively debate. [This program also offered at McDaniel Farm Park.](#)

What's Eating You? Ecosystems, Food Chains, and Food Webs*

Go on a guided forest walk to explore the nearby creek critters, and uncover evidence of the aquatic food chain. Discover how diverse plant and animal ecosystems affect the flow of energy that's required to keep the systems balanced and how pollution can disrupt this delicate system. [This program also offered at McDaniel Farm Park, or at a park location near you.](#) *For an additional charge, students may dissect owl pellets to reveal the organisms in the owl's food web to help illustrate this predator's role in the ecosystem.*

Get in Gear: Simple Machines at Freeman's Mill

Explore the historic Freeman's Mill and discover the symphony of simple machines that allowed local farmers to grind their corn into meal and feed their families. Students learn how people harnessed the energy of water and used technology from the time period to perform work. They also see how Freeman's Mill became a thriving commercial center and a hub of social activity for the community.

FIFTH GRADE



Harmful and Beneficial Microbes

Become lab scientists and experience an up close and personal understanding of the differences between harmful and beneficial bacteria. A soil hike on our trails and a microscopic study enrich awareness of where bacteria can be found and the good (and not-so-good) work it can do!

Classification: Plants and Animals of Georgia

On a guided forest walk discover plants and animals and their importance and dependency on each other. Use tools and technology, "dig into" the scientific importance of soil. An interactive activity with our vast skins, skulls, and scat collection will provide an understanding of the grouping and classifications of living things. [This program also offered at McDaniel Farm Park, or at a park location near you \(weather and location permitting\).](#)

World War I Impacts Georgia: Trenches, Tactics and Technology*

Explore the causes and impact of World War I through the lens of technology, gardening, and food preservation. Using primary sources, investigate life on the home front and in the trenches, the role and contributions of the United States in this world wide conflict, food conservation, and much more. Educators in period attire guide students to create synthetic rubber in the lab and closely analyze various harmful and beneficial microbes that impacted soldiers and those at home. Interact with special floor maps to understand the various nations involved in the conflict.

Brother, Can You Spare a Dime? | McDaniel Farm Park

Explore life during the Great Depression of the 1930s. Discover how the McDaniel family survived the challenges of the Great Depression. Participate in farm life through hands-on activities that allow students to work with cotton, experience chores, see the life of a sharecropper, and much more.

MIDDLE SCHOOL

Meteorology and Hydrology

Student meteorologists collect data using a variety of scientific instruments to predict tomorrow's weather. Build a hurricane and experience the thrill of being inside one while viewing Force Five in the Discovery Dome. Hands-on exploration in Discover H₂O and a guided trail hike provide an up close experience on how water shapes the landscape and how climate change dramatically affects wildlife. *GSE/AKS – 6th grade science*

Soil Rocks!

Journey through the rock cycle to explore some of Georgia's rocks, minerals, and soil and discover how natural processes change them. Test minerals to understand their physical properties and how these properties translate to rocks, and then explore outside to identify stages of the rock cycle up-close. See how soil supports our natural and built environments while collecting and analyzing soil samples. A soil hike provides a hands-in-the-dirt understanding of the factors necessary for soil formation and the importance of soil conservation. *GSE/AKS – 6th grade science*



Everyday Ecology

Dig into the interactions that make earth so dynamic! Model the defining factors of global biomes and track carbon through an ecosystem. Venture into our temperate deciduous forest to reveal local food webs and symbioses and discover the unique adaptations of aquatic macro-invertebrates in our streams and how they respond to human activity. *Elements of this program can be combined with elements from the Classification program. This program also offered at McDaniel Farm Park, or at a park location near you (weather and location permitting). GSE/AKS – 7th grade science*

Classification and Diversity

Through a guided forest walk, explore the taxonomy and reproductive strategies of local flora and fauna. Sharpen classification skills by identifying skulls and leaves of Georgia species using dichotomous keys. Interactive games and a study of freshwater organisms under the microscope illuminate concepts of natural selection, reproduction, adaptation, and evolution.



Waste Water Adventure*: In With The Dirty, Out With The Clean

**Transportation is needed from the GEHC to the F. Wayne Hill Water Resources Center. A guided walking tour of the F. Wayne Hill Water Resource Center reveals the mechanics of water treatment including how gravity is used as a physical force to clean water. Experience the transformations of matter and energy throughout the treatment process and understand that energy and nutrients are recovered from what is flushed down the drain! GSE/AKS – 8th grade science*

Green Physics

In this "energy filled" experience, study the physics of an obstacle course, discover the physics within our green building, explore natural forces at work in the forest, and actively engage in the physics found within many childhood games. *GSE/AKS – 8th grade science*

TREETOP QUEST

Schools may choose to have students explore the forest's canopy through the GEHC's Treetop Quest Adventure Course.

*There is an additional charge for this activity.
AP labs and Treetop Quest programs
will require additional time.*



HIGH SCHOOL

Wastewater Adventure*: In With The Dirty–Out With The Clean

*Transportation is needed from the GEHC to the F. Wayne Hill Water Resource Center. A guided walking tour of the F. Wayne Hill Water Resource Center reveals the many processes wastewater travels through as it is cleaned. Investigate the physical, chemical, and biological methods of treatment at this state-of-the-art facility and understand that energy and nutrients are recovered from what is flushed!

GSE/AKS – AP Biology, Biology, AP Environmental Science, and Environmental Science

Green Physics

In this “energy filled” experience, analyze the physics of an obstacle course, discover the physics within our green building, explore natural forces at work in the forest, and actively engage in the physics found within many childhood games. GSE/AKS – AP Physics and Physics



Forest Adventure

Gather data from the trails to identify and discuss local plant diversity. Observe the stages of succession throughout the forest and learn how land development impacts these stages. An investigation into plant and animal interdependence creates a lasting impression of how forest change affects the delicate balance of nature. Explore the environmental impact of non-native species and take a hands-on approach to restore balance in our Georgia habitat. Students make connections with the natural world and get their hands dirty by experiencing the science in the forest! GSE/AKS – Biology

Stream Adventure

Investigate the health of a stream by performing various water quality tests including temperature, dissolved oxygen, and pH. Explore and identify macro invertebrates collected from the stream, getting a snapshot of the stream’s health and an understanding of the relationship between water quality and a thriving forest. Team up to identify six different non-point source pollutants, brainstorm how they entered the stream, and theorize what impact pollutants have on that ecosystem. GSE/AKS – AP Chemistry, Chemistry, AP Environmental Science, Environmental Science, Biology, and Microbiology *Stream Adventure and Wastewater Adventure can be combined for an additional charge.

Green Building Quest: Understanding Historic and Sustainable Architecture

Take an in-depth look at the characteristics of historic and modern green building techniques. Discover how these thoughts and ideas changed over time. Examine first hand examples of nineteenth century architecture and explore the unique features of Gwinnett’s first green building. Learn how historic buildings and landscapes examine themes of daily life – transportation, communication, economics, food-ways, conflict, shelter, recreation, art and more. Discover the latest technologies and future career opportunities in these fields.

GSE/AKS – Cross-curricular standards

Biology Labs | Advanced Placement

Gwinnett County Public Schools only. Labs require additional time.

GSE/AKS – AP Biology, Biology, AP Environmental Science, and Environmental Science • *9th Grade Biology



Big Idea 1

Population Genetics & Evolution Investigation*
Origin of Life Investigation

Big Idea 2

Photosynthesis Leaf Disc Assay Investigation*
Diffusion & Osmosis Investigation*
Cell Respiration Investigation

Big Idea 3

Gel Electrophoresis & Simulated Genetic Screening*
Transformation in Bacteria: Green Florescent Protein

Big Idea 4

Enzyme Activity Investigation*
Animal Behavior Investigation*
Transpiration in Plants Investigation

TEACHER SURVEY COMMENTS

Hear what other teachers are saying!

"I was very impressed with the quality of the program and the fact that the staff went above and beyond to ensure that they taught our students exactly what they needed to know for their PBL."

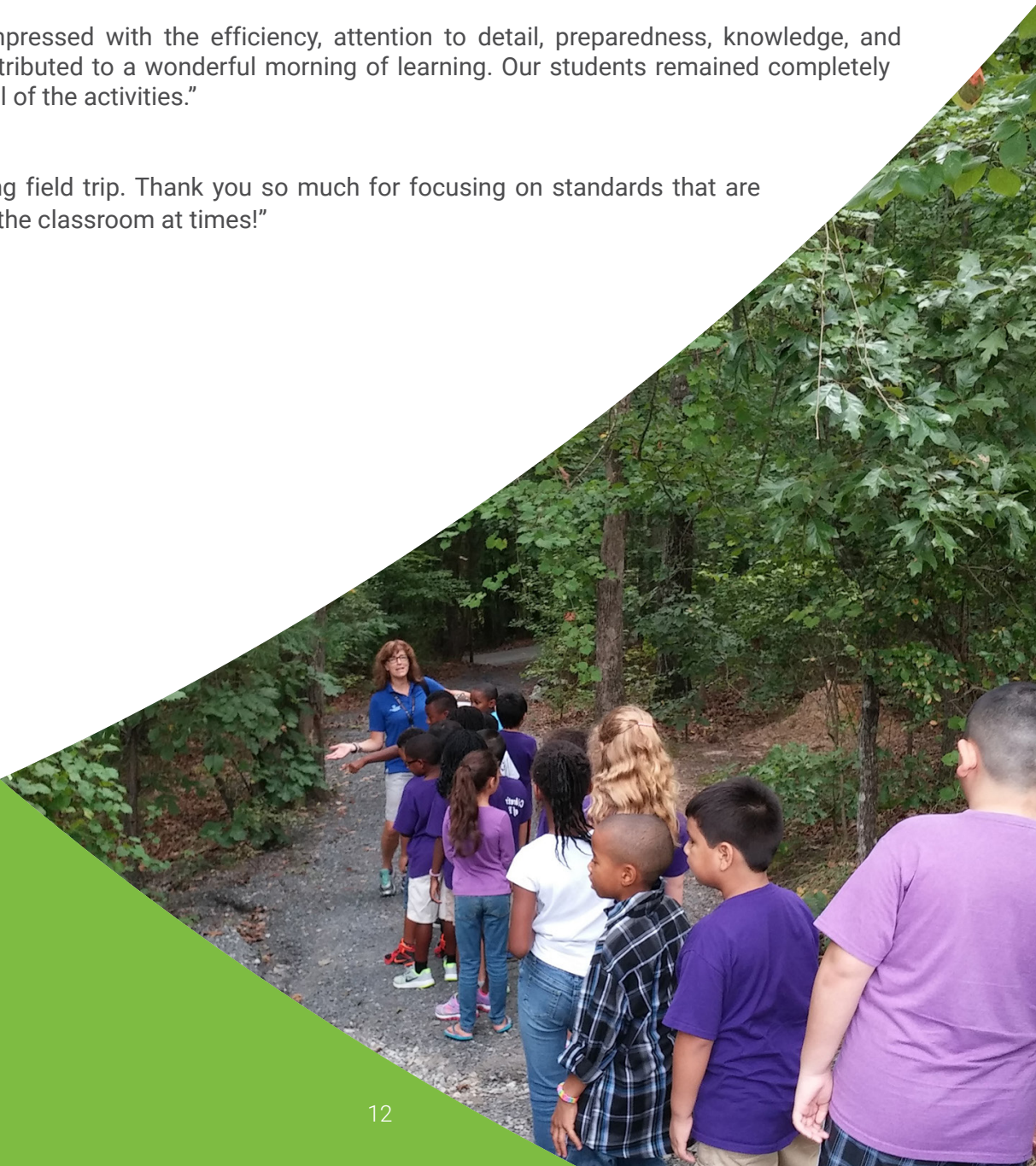
"This was so closely aligned with our studies in science. It was wonderful!!"

"This was the easiest and least stressful field trip I have ever coordinated. Absolutely the best field trip!"

"As an educator, it was wonderful to feel less stressed on a field trip. You took care of everything! GEHC is a perfect place with so many opportunities for learning directly coordinated with Georgia standards."

"We were beyond impressed with the efficiency, attention to detail, preparedness, knowledge, and enthusiasm that contributed to a wonderful morning of learning. Our students remained completely engaged and loved all of the activities."

"This was an amazing field trip. Thank you so much for focusing on standards that are difficult to explain in the classroom at times!"



OUTREACH

OUR EDUCATORS BRING THE ACTIVITIES TO YOU!

Visits can be customized to fit your schools needs and our science and social studies programs provide students with high-quality, high-interest instruction while providing teachers with the convenience of a unique field study in their own classroom.

We have two types of Outreach programs from which to choose:
Instructor-Led or Discovery Dome

PROGRAM PRICING

Number of students	Cost* student/chaperon
up to 29	\$270
up to 89	\$9/student
90 or more	\$6/student

**A \$20 per group, per day non-Gwinnett fee will apply.
Travel fees outside Gwinnett County: 40 mile travel maximum
\$20/first ten miles • \$10/additional ten miles*



INSTRUCTOR-LED OUTREACH

PRE-K Aligned with the Georgia standards for early childhood education.

Georgia Animals In My Backyard

Through hands-on investigation with our skins and skulls collection, uncover how Georgia's forest friends look and behave differently. Interactive games, a take-home craft, and a playful visit with our resident turtle show animals' needs and help students appreciate the role they play in protecting our wildlife.



Bees, Bears, and Breakfast

Black bear, black bear where can he be? Our educators share stories, songs, games, and fun bear facts with your students. It's an exciting adventure as you get to know North America's smallest bear!

KINDERGARTEN

Exploring Plants, Animals, Rocks and Soil

Through investigative plant and animal activities, hands-on exploration of animal skins, and a take-home nature craft, explore the relationship between plants, animals, rocks, and soil.

Exploring Centuries of Childhood: Then and Now

Compare and contrast a child's life in the past to current day. Sort and classify objects found throughout the centuries, enjoy hands-on activities, and play games highlighting clothing, toys, houses, chores, and school in the 1800s and today.

FIRST GRADE

Everything Needs Water

Through hands-in-dirt adventures and team activities, discover the basic needs of plants and animals in Georgia forests. Participate in a 'what belongs in our stream' activity to drive home the importance of protecting and preserving our streams!

Early American Heroes

Get immersed in the everyday lives of Benjamin Franklin and Thomas Jefferson, who had a passion for science and the environment. Educators in period attire demonstrate several of Franklin's inventions and highlight gardening practices conducted at Jefferson's family home. Use artifacts and replicas to understand the differences and similarities of everyday life between then and now.

SECOND GRADE

Georgia's Native People Knowledge and Know How

Discover the tools and technology the Cherokee and Creek utilized in their daily lives. Hear stories that explore Native American understanding of the environment and explore their cultural impact and contributions.



A Pollinator's Life: Bees, Bats, and Birds

Investigate life cycles and the diversity of life through the honeybee, bat, and hummingbird; our most important pollinators that support agricultural and natural systems. Through exploration centers and learning activities, discover the benefits of these animals and how environmental changes impact life cycles.

INSTRUCTOR-LED OUTREACH

THIRD GRADE



Ecosystems and Animal Adaptations

Discover the importance of animal adaptations for survival during this non-stop adventure including a migration survival flight and an interactive experience with skins, skulls, and scat discovery tables!

Native American Knowledge and Know How

Explore Native American understanding of the environment through stories. Understand their cultural impact and contributions to Georgia and the United States. Discover the tools and technology various Native American groups utilized in their daily lives.

FOURTH GRADE



Extreme Weather

Through the Discovery Dome film Force Five, learn how meteorologists and hydrologists work together to predict tornadoes hurricanes and how they prepare communities for these natural disasters. Use various scientific instruments to collect data and make predictions for future weather patterns.

The Civil War and its Impact on Georgia

Discover how the Civil War impacted Gwinnett and surrounding communities through exploration of technology, communication, and daily life on the battlefield and the home front.

STEAM Exploration: Simple Machines and the American Revolution

STEAM concepts were crucial factors leading to America's victory in the Revolution. Educators in period attire demonstrate simple machines and period technology. Hands-on experiences replicate activities groups like the Daughters of Liberty and tradespeople adopted to support the call for independence.



FIFTH GRADE



World War I Impacts Georgia: Trenches, Tactics and Technology

Educators in period attire explore the causes and impact of World War I on Georgia through technology and food preservation. Interact with special floor maps to understand the various nations involved in the Great War. Analyze various harmful and beneficial microbes that impacted soldiers and those at home and discover new technologies that emerged from the conflict.

Classification Station!

Through hands-on discovery and teamwork, develop a model that illustrates how plants and animals are sorted into nine classification groups, use scientific tools to investigate the physical characteristics of each group, and role play scenarios that demonstrate the differences between inherited versus acquired traits.



SIXTH GRADE



Soil Rocks!

Through lab experiments and soil-building activities, dig into the ingredients and importance of the living earth beneath our feet.

Meteorology and Hydrology

Through the Discovery Dome film Force Five, learn how meteorologists and hydrologists work together to predict tornadoes and hurricanes and how they prepare communities for these natural disasters. Using various

scientific instruments, collect data and make predictions for future weather patterns.

EIGHTH GRADE



The Civil War and its Impact on Georgia

Discover how the Civil War impacted Gwinnett and surrounding communities through exploration of technology, communication, and daily life on the battlefield and the home front.

DISCOVERY DOME OUTREACH

Explore the galaxy and the stars! Our educator will bring the Discovery Dome portable planetarium to your site and set it up for multiple, short viewings with your choice of exceptional audio and visual presentations. Students and families will enjoy this unique perspective of outer space with for Science Nights, Fall Festivals, Scout programs, and more!

PER HOUR PRICING

Great for Science Nights, Fall Festivals, Scout Programs and more.

Length of program	Cost*
First 2 hours	\$450
Additional 30 Minutes	\$75

**A \$20 per group, per day non-Gwinnett fee will apply.*

Travel fees outside Gwinnett County: 40 mile travel maximum

\$20/first ten miles • \$10/additional ten miles

GET A DISCOUNT ON DISCOVERY DOME OUTREACH!

Schools that bring 150 students or more to Museum Quest, Forest Quest, or Field Study get the Discovery Dome Outreach for only \$275 for the first two hours.

Both programs must be scheduled in the same academic year. For additional hours, fees apply.



DISCOVERY DOME OUTREACH

EDUCATOR-LED PRESENTATION

Night Sky

Our educator leads an exploration of the night sky to see some phenomenal objects out in space and learn how ancient people viewed the heavens.

Length: 23 minutes • Suggested audience: Ages 5 and up

FILMS PRESENTATIONS

Astronaut

Discover how the exploration of space is the greatest endeavor that humankind has ever undertaken.

Length: 23 minutes • Suggested audience: Ages 5 and up

Saturn: The Ring World

See Saturn up close and all around you inside our dome theater.

Length: 23 minutes • Suggested audience: Ages 5 and up

Force Five

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.

Length: 20 minutes • Suggested audience: Ages 9 and up

Two Small Pieces of Glass: The Amazing Telescope

Learn how telescopes work and how the largest observatories in the world use these instruments to explore the mysteries of the universe.

Length: 22 minutes • Suggested audience: Ages 10 and up

Heart of the Sun

Go inside the Sun! New space based technologies, along with a new generation of terrestrial instruments, capture both the fine surface detail and the vast eruptions of the corona with unprecedented clarity.

Length: 22 minutes • Suggested audience: Ages 10 and up

Ultimate Universe

A joint effort between Evans & Sutherland and the Clark Planetarium, Ultimate Universe is a three dimensional journey from the edge of the universe through space and time to reach our home planet.

Length: 33 minutes • Suggested audience: Ages 10 and up



Amazing Astronomers of Antiquity

Over 2,000 years ago ancient astronomers knew the Earth was round, measured its diameter and distance from the sun, created an accurate star map, knew the length of the year to the precision of our modern calendar, and developed a method for predicting eclipses!

Length: 22 minutes • Suggested audience: Ages 10 and up

IBEX – Search for the Edge of the Solar System

Investigate the boundary between our Solar System and the rest of the galaxy by understanding NASA's Interstellar Boundary Explorer (IBEX).

Length: 28 minutes • Suggested audience: Ages 12 and up

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