



MOREHEAD
PLANETARIUM+
SCIENCE CENTER



Teacher's Guide 2021-2022

FIELD TRIPS on the campus of UNC-Chapel Hill

+ MOBILE PROGRAMS at your school

NEW

experiences including:

Earth & Beyond,
the Launch Lab, and
new planetarium
shows!

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ABOUT US

Morehead Planetarium and Science Center is a unit of the University of North Carolina at Chapel Hill and was the first and largest full-dome planetarium in the south. Today, we remain one of the premier planetarium and science centers in the country with the bold mission to serve North Carolina and beyond by bringing together the unique resources of UNC to engage the public for an improved public understanding of science, technology and health.

CONTACT

Morehead Reservations Team

📞 919-962-1236

✉️ mpsc_reservations@unc.edu



**MOREHEAD
PLANETARIUM+
SCIENCE CENTER**



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

What's New AT MOREHEAD

Don't miss our new hands-on Launch Lab (pg 5), planetarium shows (pg 6-7), and at-your-school programming (pg 8-11).

Learning through exhibits

Completed in the Fall of 2020, our recent renovation transformed Morehead into a full-service planetarium and museum with more interactive exhibits. The Ivan R. King Gateway Gallery is located in our rotunda and contains exhibits that focus on the history of UNC, Morehead Planetarium, and the astronaut training program that took place in the 1960s and 1970s. The Breakthrough Hub exhibit space focuses on current UNC research in Public Health, Astronomy, Marine Science, Plant Ecology, and Biomedical Engineering.

ASK ABOUT
OUR EXHIBIT
CHALLENGE
GUIDE!

Explore the Stars Science Kits

Recommended grades 2-7

AVAILABLE IN ENGLISH AND SPANISH

Are you ready to explore the stars? New for this year, Morehead is offering bilingual Explore the Stars kits! We've created an easy-to-use kit that includes a bilingual storybook, online resources, and 4 hands-on activities:

- Moon Phases
- Sundial
- Spectroscope
- Star Finder

Kits will be shipped in early 2022. Learn more and pre-order your kit by November 1 by going to moreheadplanetarium.org/explora-las-estrellas

COMING
SOON



Designed with Safety in Mind

Each Morehead program has been designed with a set of evidence-based protocols to deliver maximum science fun while keeping students and teachers safe. Read the details of each program online to learn about its COVID protocols.

Field Trips AT MOREHEAD

[MOREHEADPLANETARIUM.ORG/FIELD-TRIPS](https://moreheadplanetarium.org/field-trips)

Science LIVE! Programs

GRADES
K-12

LENGTH
45 min.

MAX. PARTICIPANTS
74 persons per show



Live shows on Morehead’s Science Stage captivate students of all ages! Each “Science LIVE!” program engages the audience and asks for volunteers to participate in exciting science demonstrations. Specific demonstrations may vary depending on grade level.

SCIENCE LIVE! PHENOMENAL PHYSICS

In a program that Isaac Newton would have loved to attend, we will explore the fundamentals of physics through live experiments. We’ll talk about forces and motion with some Carolina basketball flair, generate thousands of watts of electricity with our hair-raising Van Der Graaff generator, and do the coolest demonstration ever, literally, by observing nitrogen in two phases.

SCIENCE LIVE! UNDER PRESSURE

We put science under pressure in this program. We’ll demonstrate Bernoulli’s principle with a 10-foot-long bag and just your breath, demonstrate how much air weighs by crushing a can, try to burst balloons with hundreds of nails, and make a huge combustion in our “whoosh bottle.”

SCIENCE LIVE! ALL SYSTEMS GO

Our bodies need to be “all systems go” for us to get through each day. Join us to take an in-depth look at hair, skin and fingernails with a digital microscope, create an electrical circuit with your body, ignite a jelly bean to demonstrate metabolism, and test reaction times of your eyes and hands.

SCIENCE LIVE! MAGNIFICENT MATTER

Matter makes up everything — it surrounds you, and can even change its appearance right before your eyes! We will learn about the states of matter, examine some tricky materials that exist between states of matter, make instant “snow,” and cap it all off by observing some colorful combustions using the chemical properties of different elements.

SCIENCE LIVE! SCIENCE SHOWTIME

For the very young scientists of the world (minimum age of 4 years old), we’ll demonstrate some of Morehead’s most exciting science experiments. Participants will learn how we experiment with different materials and see how much fun science can really be in an accessible way.

SCIENCE LIVE! LIGHT UP THE STAGE

Learn about the properties of light as we “Light up” the Science Stage! We will explore and demonstrate many properties of light such as diffraction, refraction, reflections and fluorescence. We will explore optical illusions and color using visible and ultraviolet light.



NEW!

Launch Lab

Enrichment Experiences

GRADES	LENGTH	MAX. PARTICIPANTS
3-8	45 min.	30 students

GRADES	LENGTH	MAX. PARTICIPANTS
1-12	45 min.	30 students

Add an extra dimension to your visit with a hands-on, minds-on Enrichment Experience led by a Morehead educator.

EYES ON THE SKY

Recommended for grades 1-2, recommended show pairing: Magic Tree House: Space Mission

How do we know so much about the night sky above our heads? Well, all you need to do is look! In this eyes-on class, you will practice using real astronomy equipment like telescopes and binoculars. You will see what makes them different and learn which one turns you upside down!

ROUND AND ROUND WE GO

Recommended for grades 3-4

Get ready to move as we explore the relationship between Earth, Moon and Sun in this highly interactive and kinesthetic class. Why do we have day and night? What causes eclipses? We'll answer these questions and more as we "dance the night away."

SEISMIC STUDIES

Recommended for grades 3-5, recommended show pairing: Earthquakes, Volcanoes, and Tsunamis

Have you ever wondered why we have earthquakes? In this hands-on class, you will learn about seismic waves and how the Earth's structure leads to earthquakes. You can put your skills to the test by trying to build an earthquake-proof house!

SOLAR SYSTEMATICS

Recommended for grades 3-8

What does our Solar System really look like? How do we know? In this hands-on adventure, students become NASA engineers as they design, build and test interplanetary landers that are needed to explore rocky worlds like Mars.

WINGING IT

Recommended for grades 3-8, recommended show pairing: Take Flight

For years humans dreamed of flying like the birds. And now we can! Join us to test flying machines and investigate the four forces necessary to get humans, birds and other animals off the ground and into the air.

Learn by building and discovering in MPSC's new makerspace! Launch Lab programs are designed to highlight science topics through hands-on, maker centered activities. Activities and equipment used vary with grade level.

GRASPING AT STRAWS: ROBOTIC HANDS!

Recommended for grades 1-4

Learn the basics of hand movement by using common materials to create a model hand that actually moves. Students will use straws, yarn and cardboard to build artificial ligaments and bones and see how these things work together inside your hand.

VALVES INSIDE

Recommended for grades 3-5

Valves are all around us and inside us as well! Using a variety of materials, students will create simple types of valves, test their effectiveness, and discover research being done in the use of artificial heart valves inside the human body.

WATER WAYS

Recommended for grades 4-8

Learn about water pollution and contaminants as you work together to create water filters and technology to help keep water clean! Students will learn about water quality testing, basic filtration and ecology.

LIGHT POLLUTION CIRCUITS

Recommended for grades 6-12

Light pollution affects animals, astronomers, and human health! Learn about this growing issue and what can be done to solve it by designing better streetlights and measuring equipment. Students will create simple circuits and use testing equipment to see how light can be kept on Earth where it is needed.

HIDDEN WORLDS

Recommended for grades 7-12

Researchers at UNC are actively exploring the world of the very small and studying the interactions between plants, fungi, and disease. In this class, students will create a microscope for use with a tablet or cell phone and use it to explore the world outside.

Planetarium Shows



[MOREHEADPLANETARIUM.ORG/PLANETARIUM-SHOWS](https://moreheadplanetarium.org/planetarium-shows)

GRADES
K-12

LENGTH
45 min.

MAX. PARTICIPANTS
210 persons per show

Morehead planetarium shows are an exciting way to engage and inspire your students with a love of science.

Surround your students with the sights, sounds and sensations of an extraordinary educational adventure! Each program includes a planetarium show, a question and answer session with a Morehead educator and if time permits, a mini star tour. Some planetarium shows are available with a Spanish language audio track; if needed, please request this one week in advance.

Tales OF THE AMERICAN SOUTH

NEW!

TALES OF THE AMERICAN SOUTH

Recommended for grades 6-12.

Additional teaching resources available at amsouth.unc.edu

The American South is shrouded in romance and myth, and its historical and modern-day realities are both intriguing and complex. What does it mean to be from, to live in, and/or teach about the American South today?

Produced through an innovative partnership between Morehead and UNC-Chapel Hill's Center for the Study of the American South.

Planetarium Shows



OPTIONAL SPANISH
AUDIO TRACK

ASTRONAUT

Recommended for grades 4–5
(also suitable for grades 6–12)

CAROLINA SKIES

Recommended for grades 3–12

COSMIC COLORS

Recommended for grades 2–12

DYNAMIC EARTH

Recommended for grades 6–12

EARTH, MOON AND SUN

Recommended for grades 1–4
(also suitable for grade 5)

EARTHQUAKES, VOLCANOS AND TSUNAMIS

Recommended for grades 5–12

NEW!

GALILEO: THE POWER OF THE TELESCOPE

Recommended for grade 6
(also suitable for grades 4–12)

THE LITTLE STAR THAT COULD

Recommended for grades K–2

THE LONGEST NIGHT

Recommended for grades 1–12

MAGIC TREE HOUSE® SPACE MISSION

Recommended for grades K–2
(also suitable for grade 3)

MOVING ALL AROUND

Recommended for grades K–2

PHANTOM OF THE UNIVERSE: THE HUNT FOR DARK MATTER

Suitable for grades 9–12

SOLAR SYSTEM ODYSSEY

Recommended for grades 3 and 6
(also suitable for grades 4–8)

THE SUN: OUR LIVING STAR

Recommended for grades 6–12

SURVEYING THE SOLAR SYSTEM

Recommended for grades 3–5

TAKE FLIGHT

Recommended for grades 3–7

WE ARE STARS

Recommended for grades 6–12

For a detailed list of each show's correlations with NC Essential Standards for recommended grades, visit moreheadplanetarium.org/nc-standard-course-of-study

NEW!

MYSTERIES OF YOUR BRAIN

Recommended for grades 5–9

Have you ever dreamed of looking at the human brain, from inside it?

Mysteries of Your Brain takes you on an immersive, animated adventure into the human brain, zooming along the path of neurons and experiencing illusions on a grand scale, exploring how the brain works and what makes human brains so special.

At Your School

MOBILE PROGRAMS

MOREHEADPLANETARIUM.ORG/AT-YOUR-SCHOOL

Our Physical World Live!

GRADES
K-8

LENGTH
varies
(see pricing table)

MAX. PARTICIPANTS
varies
(see pricing table)

NEW!



In this new program, a Morehead educator will guide your group through standards-aligned activities that will explore STEM fields such as chemistry and physics in the classroom. Its assembly-style component will captivate participants with interactive experiments and demonstrations performed by a Morehead educator in the school's gym, auditorium, or outdoor stage. Students will investigate force and motion, experiment with phase changes and chemical reactions, and explore other topics to support classroom learning.

ASSEMBLY-STYLE

Recommended for grades K-2, 45 minutes

Learn about forces and motion as we launch rockets and make objects levitate in midair. Experiment with phase changes using balloons and bubbles, perform chemical reactions to create cascades of colorful foam, and so much more. This show will have younger audiences on the edge of their seats as we introduce them to the wonderful world of science.

Recommended for grades 3-5, 60 minutes

Explore Newton's laws of motion with "magic" tricks and rocket launches, then conduct hair-raising experiments with electricity using a Van De Graaff generator. Learn about human body systems with a digital microscope, discover phase changes with liquid nitrogen, and more. We'll even perform a chemical reaction to create a giant, colorful foam explosion as our grand finale! This dynamic show will amaze your students while reinforcing key scientific concepts.

NEWTON IN MOTION

Recommended for grades K-1, 3, 5, 7

Let's get familiar with physics! The laws of physics impact everything around us. Students will learn about force and motion, inertia and other concepts from Newton's Laws

before applying this knowledge to roller coasters, rocket balloons, and more! Older students will delve further into applications of forces and Newton's Laws and extend their connections to potential and kinetic energies.

ENERGY SUPPLEMENTS

Recommended for grades 3-8

Could your students use a jolt of energy? This lesson provides a broad overview of all ten types of energy, including the distinction between kinetic and potential energies. Let's journey together to discover what energy is, the various forms it can take, and how humans can make use of it all! Students will go through activities and challenges, including understanding how their bodies convert chemical energy into movement. Older students will engage in a more in-depth exploration of the same concepts and also make connections to the Law of Conservation of Energy.

THE STATE OF THINGS

Recommended for grades 2-3, 5-6, 8

Crazy chemistry abounds as students learn more about the phases of matter and all that they are capable of. Students will focus their attention on physical and chemical changes through a mix of guided and interactive experiments, including creating a vacuum, dissolving solids in liquids, and producing neon light!

Morehead in Motion: Lab to Life

GRADES
6-12

LENGTH
75-90 min.

MAX. PARTICIPANTS
30 students per session



Morehead's Lab to Life program is a selection of hands-on, narrative-driven lessons for middle and high school students. Through these chemistry or biology-focused labs, students will have a chance to experience what it would be like to work in a variety of STEM careers and see the direct application of the skills and standards they are learning in their classes.

#YESFILTER (WATER TREATMENT)

Recommended for chemistry, earth/environmental science, biology, or engineering courses

Investigate water chemistry and purity in this lab. We'll discuss pH to see the connections between water, acid/base chemistry, and life. Then, we'll simulate part of the water treatment process by creating a custom filter to clean a sample of polluted water.

TREEGONOMETRY (FIELD STUDY)

Recommended for biology, earth/environmental science, forestry, trigonometry, or geometry courses

Investigate complex relationships between organisms and the physical and biological environment, as well as the movement of energy and materials within an ecosystem. Employ various environmental sampling technologies to determine the disposition of both biotic and abiotic factors within an assigned study site.

Note: This lab is conducted outside. As such, it is weather-dependent and is only offered in September, October, late March, April, and May.

DEEP SEA DETECTIVES (DNA FINGERPRINTING)

Recommended for biology, forensics, or oceanography courses

Become an oceanographer and use gel electrophoresis (also known as DNA restriction analysis) to analyze simulated seawater samples to detect environmental DNA to search for and document new species that call the ocean's mysterious twilight zone home.

MYSTERY OF THE CROOKED CELL (GEL ELECTROPHORESIS)

Recommended for biology, anatomy and physiology, or allied health courses

Discover the molecular basis of sickle cell disease and use gel electrophoresis as a diagnostic tool to differentiate wild-type hemoglobin from mutated hemoglobin found in individuals with sickle cell disease. Module developed by Boston University School of Medicine CityLab.

BIOLOGICAL BODYGUARDS (ELISA TEST)

Recommended for biology, applied science, anatomy and physiology, allied health courses

Students will use an Enzyme Linked Immunosorbent Assay (ELISA) to test for a simulated antigen with antibodies. This lab can be used to model how those in science and medical careers use this process to screen hypothetical patients for disease, test water samples for toxins, or another narrative that you request.

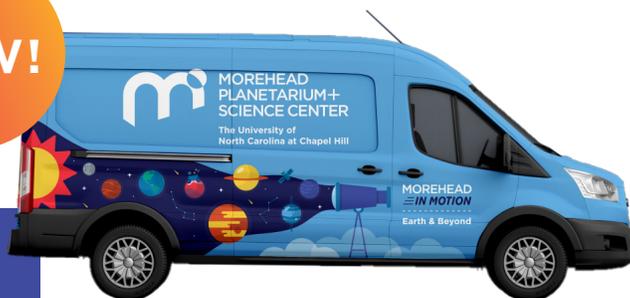
HYDROELECTRIC ENGINEERING CHALLENGE

Recommended for physics, earth/environmental science, physical science, biology courses

Learn the fundamentals of electrical power generation by researching the relationship between electricity and magnetism, and how this led to the development of the electric motor. We'll discuss renewable and nonrenewable energy sources, and engage in the engineering cycle to create a prototype hydroelectric turbine.

Morehead in Motion: Earth & Beyond

NEW!



GRADES
K-12

LENGTH
60-75 min.

MAX. PARTICIPANTS
25 students per session

In this new Morehead program, students participate in standards-aligned lessons that explore earth science and astronomy concepts. Students experience exciting astronomy visualizations, explore moon phases and light, learn to map planetary surfaces, hunt for exoplanets, and much more!

A YEAR OF WEATHER

Recommended for grades K-2

Have you ever wondered how clouds and rain are formed in the Spring? How can wind blow the leaves from the trees in Autumn? How does water change into delicate snowflakes and hazardous ice in Winter? A Year of Weather helps students visualize the fascinating and varied changes in our atmosphere throughout the seasons.

SPACE OBSERVERS

Recommended for grades K-2

How do people observe objects that are far away? Students will practice their observational skills to compare how the views we see are different when we use our eyes and when we use tools like a telescope and binoculars.

EARTH & PLANETARY MAPPING

Recommended for grades 3-5

What do maps help us learn? How can you learn about a planet that is covered in clouds? What kinds of tools do you need? Students will explore ways that NASA and other space agencies use satellites and other spacecraft to indirectly map the surfaces of planets - including our own Earth!

SOLAR SYSTEM EXPLORATION

Recommended for grades 3-5

Have you ever wondered what scientists look for when we explore other planets? What features do we use to help classify things in our solar system? What in the world happened to Pluto?!?! Explore these concepts and more through hands-on activities and visualizations to classify objects in our solar system, indirectly map a planet's surface, and help solve an inter-planetary mystery.

CLIMATE TRACKERS

Recommended for grades 6-8

What is the difference between climate and weather? What is climate change? How do we track the cycling of

water and gases in our own atmosphere? This activity will help students connect with the global concept of climate while using meteorological models and NASA visualizations to track the vital signs of our planet - including carbon released into the atmosphere.

EXOPLANET HUNTERS

Recommended for grades 6-8

Is there another planet like Earth out there? Are there other solar systems besides our own? How can we see things that are so far away? Students will tackle these questions using NASA data and visualizations and will explore some of the thousands of planets outside of our own solar system. Classifying these otherworldly planets can help us gain better insight into planet formation and some of the mysteries of our own Solar System.

LIGHT & THE ELECTROMAGNETIC SPECTRUM

Recommended for grades 9-12

How are we able to look so far back into space and time? How does light travel and how do we capture it? How does this journey inform our knowledge of the universe? Where do black holes lead? Students will explore how the Hubble Space Telescope, the upcoming James Webb Space Telescope, and other observatories use the electromagnetic spectrum to give us a brighter picture of the matter and structure of the universe. Through exploration of wavelengths, students will understand how beautiful astronomical images come to life.

OCEAN ACIDIFICATION & CLIMATE CHANGE

Recommended for grades 9-12

How does human activity affect our oceans and seas? How do scientists measure changes in the health of the ocean? How does this affect us in North Carolina? As future scientists, students will perform pH assessment to learn about ocean acidification and use NASA Earth Science data to track the potential path for rising sea levels.

Virtual Field Trips – Virtual STEMville!

GRADES
K-12

LENGTH
45 minutes

MAX. PARTICIPANTS
no min. or max.

NEW!

On this epic journey, students will explore a variety of STEM concepts through engaging virtual workshop sessions with Morehead educators and scientists from our state. We'll use special planetarium software to learn about the sky and other current astronomy topics. We'll conduct exciting science experiments in our lab, and talk with scientists about different scientific methods for their research.

SCIENTIST BLOCK PARTY!

Recommended for grades 3-12

Join the dynamic duo of educator and scientist while they conduct a fun scientific demonstration or activity for your students! Your students will meet a real scientist and learn about their path to becoming a scientist and how they use the scientific method in their research!

ASTRONOMY AVENUE

In this Virtual STEMville experience, participants will join a 360° planetarium show viewing, explore current astronomy topics, learn about hidden science stories, and observe our night sky using planetarium software.

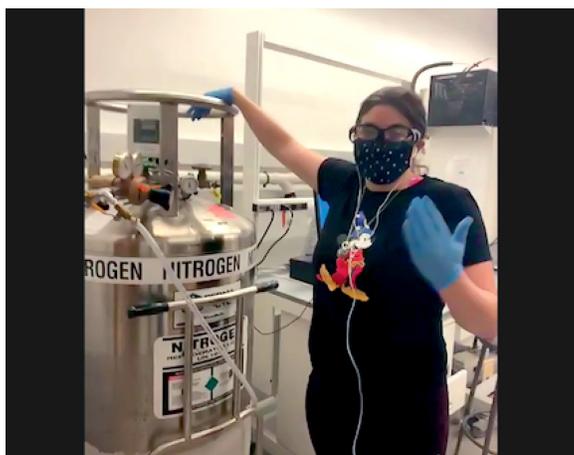
Morehead astronomers and guest scientists may also provide live Q&A and additional activities and resources for further at-home science enrichment.

Elementary School (grades K-5)

These standards-aligned lessons will focus on objects in our solar system, how they move and change over time, and how they fit together to make our place in space so great.

Middle/High School (grades 6-12)

These standards-aligned lessons will focus on current space missions, aeronautics, and the exploration of the solar system and beyond. Groups will also have the opportunity to dive deeper into current Physics/Astronomy topics. These lessons will focus on topics ranging from navigating our sky with seasonal constellations to exploring the nature of black holes.



THE MOBILE PLANETARIUM IS UNAVAILABLE FOR REQUESTS DURING THE 2021-2022 SCHOOL YEAR. HOWEVER, ONE OF OUR NEWEST PROGRAMS, "MOREHEAD IN MOTION: EARTH & BEYOND" (SEE PAGE 10) FOCUSES ON CONTENT ADDRESSED BY OUR MOBILE PLANETARIUM SHOWS.

North Carolina Science Festival

[NCSCIFEST.ORG/EDUCATORS](https://ncscifest.org/educators)



The North Carolina Science Festival—founded by Morehead in 2010—is an annual statewide, month-long celebration of science that takes place every April. Hundreds of fun (and usually free) public events will be listed on the NCSciFest website in mid-February.

Educators are vital to the North Carolina Science Festival’s mission—they prepare future scientists! We thank you for everything you do and encourage you to participate in the NCSciFest with your students. We also want to collaborate with you in providing exciting science experiences. The NCSciFest offers “at-your-site” educational initiatives specifically for K-12 schools.

DUKE ENERGY SCIENCE NIGHTS

Grades K-5

Funding from the Duke Energy Foundation allows NCSciFest staff to produce STEM activities and resource kits for use by elementary schools across the state. This program is designed to help you host a fun science event for your students and their families with the use of a kit that includes hands-on activities aligned with NC Science Standards, a planning guide, activity instructions, materials for up to 200 participants, and the support of NCSciFest staff.

The Duke Energy Foundation sponsorship funds a number of kits to award at no charge. These are awarded to schools using an application process that includes a review of school need, demographics, geography, and past participation.

Kits can be purchased and sponsorship applications open starting in August 2021. Schools hold their family science night during April 2022, bringing families together as a community to explore the amazing world of science as part of the North Carolina Science Festival.

Learn more about kit contents, application details, and program timeline at ncscifest.org/elementary

SCIMATCH

Grades 6-8

The NCSciFest team recruits dynamic and dedicated scientists from diverse backgrounds to share their excitement about science with middle school students. SciMatch pairs middle school teachers with these scientists to schedule classroom visits to speak about their backgrounds and research, answer questions about their careers, and engage your students in a fun, hands-on activity. This program is designed to inspire students to consider science as a career. Learn more at ncscifest.org/scimatch

PUBLIC EVENTS

All ages

The NCSciFest team and our network of partners across the state produce hundreds of amazing STEM events for public and K-12 audiences each April. The calendar of events goes live on February 14. Find events near you at ncscifest.org



How to Make a Reservation

APPLY FOR NCSCIFEST PROGRAMS AT [NCSCIENCEFESTIVAL.ORG/EDUCATORS](https://ncsciencefestival.org/educators)

FIELD TRIPS AT MOREHEAD

Choose the experiences you want for your Morehead field trip.

- Participate in a Science LIVE! demonstration program (see page 4)
- Practice hands-on skills in an enrichment experience (see page 5)
- Learn by creating in a Launch Lab program (see page 5)
- Watch a fulldome show in Morehead's planetarium (see pages 6-7)

Choose the dates for your Morehead science experiences — a first choice, a second choice and a third choice. Morehead will strive to accommodate your selection, but cannot guarantee availability.

Decide how your group will travel to Morehead.

Submit a field trip reservation form online at moreheadplanetarium.org/field-trips

MOBILE PROGRAMS AT YOUR SCHOOL

Choose the experiences you want for your Morehead mobile visit.

- Participate in an Our Physical World Live! Program (see page 8)
- Practice hands-on skills with a Morehead in Motion: Lab to Life visit (see page 9)
- Practice hands-on skills with a visit from Morehead in Motion: Earth & Beyond (see page 10)
- Explore STEM concepts with a Virtual STEMville! Virtual Field Trip (see page 11)

Decide how your school will accommodate a visit from a Morehead mobile program.

Consider which dates your school would not be able to accommodate a Morehead visit. Based on your response, our outreach team will offer you a selection of potential dates.

Each At-Your-School program has its own reservation form. Find them online at moreheadplanetarium.org/at-your-school

DONE!

You should receive an email notice that we have received your request within 15 minutes of submitting the form. A Morehead reservations specialist will contact you to confirm the details and discuss any special requests you may have.

Pricing

FIELD TRIPS	Planetarium Show¹, Enrichment Experience, Launch Lab, or Science LIVE! Program	Student fee	Adult fee
	First show or class	\$9.50 per student	\$11.50 per adult
	Additional show or class	\$3 per student	\$4 per adult
	Virtual STEMville! Field Trip	1 session \$125 + tax	3 session bundle \$325 + tax

MOBILE PROGRAMS	Morehead in Motion: Lab to Life	Base fee	Base time	Extended fee	Max. sessions²	Max. participants	Session length
	One-day school visit	\$350	1 day	\$175/ additional day	3	30 per session	75-90 min.
	Morehead in Motion: Earth & Beyond						
	One-day school visit	\$300	1 day	\$150/ additional day	2	25 per session	60-75 min.
	Our Physical World Live!						
	One-day school visit with classroom activities and assembly demonstrations	\$450	1 day	\$150/ additional day	2	24 (for activities) 150 (for demos)	60-75 min. 45-60 min.
One-day school visit with classroom activities only	\$300	1 day	\$150/ additional day	2	24 per session	60-75 min.	
One-day school visit with assembly demonstrations only	\$300	1 day	\$150/ additional day	2	150 per session	45-60 min.	

TRAVEL FEES³	Within 90-mile radius of Chapel Hill	\$50
	More than 90 miles from Chapel Hill	\$200

MOREHEADPLANETARIUM.ORG/PRICING

¹ Planetarium shows are subject to NC State and Local Sales & Use taxes.

² If you need more than the maximum sessions per day to serve your students, please extend your reservation by adding consecutive days or hours (depending on program). The “Extended Fee” is your discounted cost for any consecutive days or hours you add.

³ Distances are calculated with the Google Maps application.



Frequently Asked Questions

Do your programs line up with my curriculum?

Our grade level recommendations for each program and planetarium show are based on NC Essential Standards correlations. We also deem shows suitable for varying grade levels based on age group. Please visit Morehead's website for a detailed list of each program's correlations with NC Essential Standards.

My students are studying science topics that aren't covered by your current programs. Can you still help us?

If you have a special curriculum need for your school or afterschool program, please let us know! Morehead is continually expanding its program choices, and our educators may be able to help you meet special needs.

Do you offer professional development opportunities?

Morehead educators present workshops at various state conferences each year.

Are your programs available in different languages?

All Morehead programs are available in English. Some planetarium shows are also available with audio tracks in Spanish. (Look for the  icon on the planetarium show listings, pages 6-7.) Please request this at the time you make your reservation.

Are your programs accessible to persons with disabilities?

At Morehead, GSK Fulldome Theater and Science Stage are both accessible by ramp and offer assistive listening devices. Before each visit, mobile program educators will work with teachers to ensure the learning experience supports their students' needs. Please contact Morehead's guest relations manager at 919-962-1236 for additional information.

Can each person pay individually?

To offer group pricing, Morehead requires a single payment by check or credit card (MasterCard, Discover, or Visa) from the school. You will receive an invoice in advance, confirming the total participants and the amount due. For a field trip at Morehead, payment is due 3 business days prior to your visit. For a mobile visit at your school, payment is due two weeks in advance.

May a charter operator make arrangements for our field trip?

Morehead policy requires that we communicate directly with an official representative of the school. If a third party (charter operator, travel agent, other trip planner) who is not a school employee makes arrangements for a field trip, the third party is responsible for payment of the full invoiced total for the reservation.

The number of people in our group has changed. What do we do?

If you need to make changes to your reservation, please contact us as soon as possible, but at least 3 business days before a field trip at Morehead or 7 days before a mobile visit at your school. If you have fewer people without providing the minimum notice, your school is still financially responsible for the full cost of your original reservation. If you have more people without providing the minimum notice, Morehead cannot guarantee their participation. In case of inclement weather, we will work with you to reschedule your program with no penalty.



MORE QUESTIONS?

VISIT OUR WEBSITE AT

[MOREHEADPLANETARIUM.ORG/FIELD-TRIP-FAQS](https://moreheadplanetarium.org/field-trip-faqs)

OR CALL OUR FRONT DESK AT 919-962-1236.



MOREHEAD PLANETARIUM+ SCIENCE CENTER

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You will have the option to request scholarship funding when you complete your online reservation form.

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