

Teacher's Guide

2019-2020

FIELD TRIPS on the campus of UNC-Chapel Hill
+ MOBILE PROGRAMS at your school

PLUS

NEW experiences
including:

*Lab to Life and the
GSK Science on Your
Street enrichment
program!*



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ABOUT US

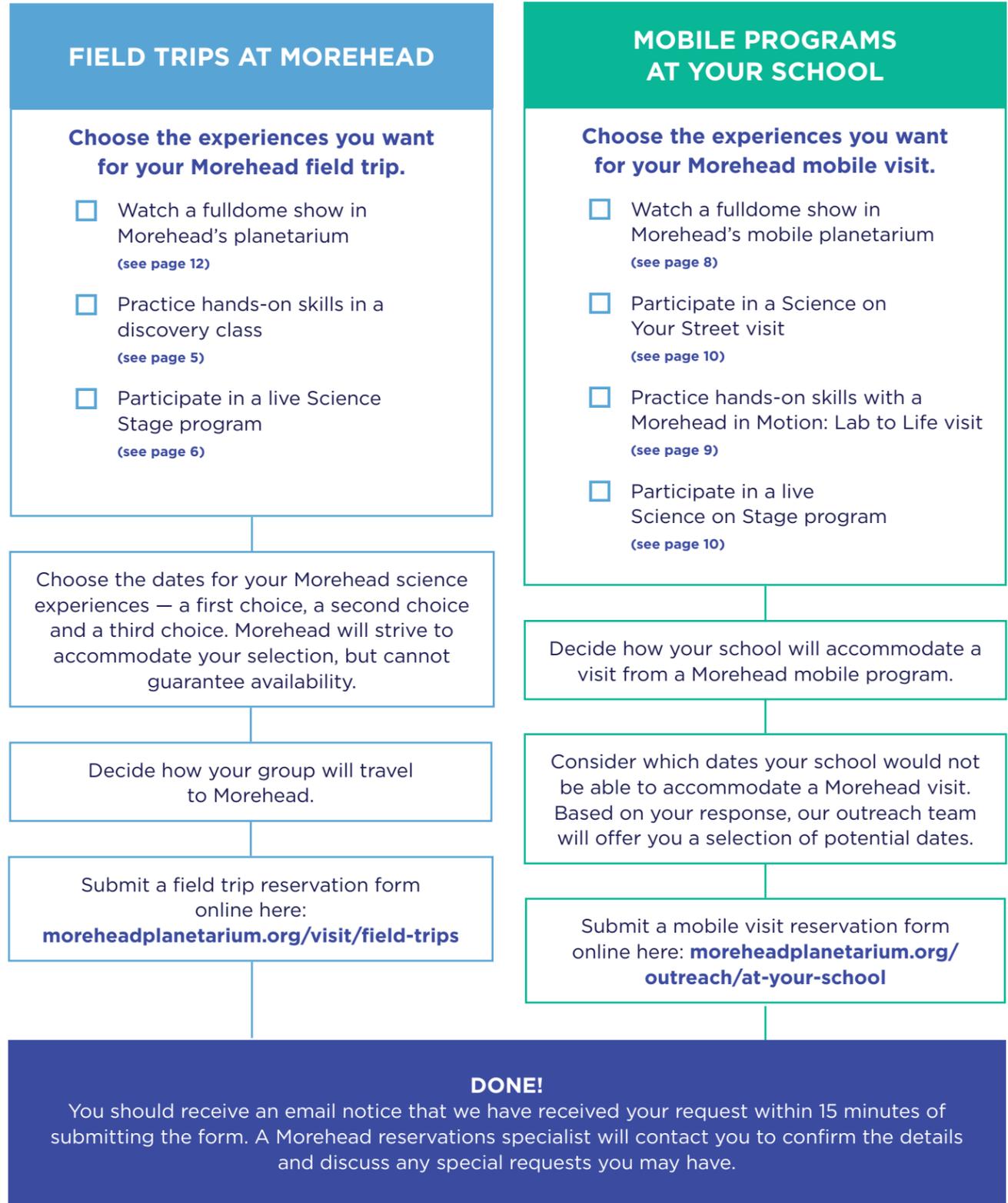
Morehead Planetarium and Science Center is a unit of the University of North Carolina at Chapel Hill and was the first and largest full-dome planetarium in the south. Today, we remain one of the premier planetarium and science centers in the country with the bold mission to serve North Carolina and beyond 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



How to Make a Reservation





Field Trips AT MOREHEAD

From the moment you arrive, Morehead educators create new and exciting opportunities to engage your students in educational STEM adventures. And there's a bonus: Morehead's location on the University of North Carolina at Chapel Hill campus provides a perfect opportunity for your students to imagine themselves as college students.



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. See [pages 12-15](#) for a complete list of planetarium shows for your field trip.

Discovery Classes

GRADES
3-7

LENGTH
45 min.

MAX. PARTICIPANTS
30 students



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

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."

SOLAR SYSTEMATICS

Recommended for grades 3 and 5-7

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 3-7

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.



DISCOVERY CLASS AVAILABILITY WILL BE IMPACTED BY OUR BUILDING RENOVATION DURING THE FALL 2019 SEMESTER. VISIT THE FIELD TRIPS PAGE ON OUR WEBSITE FOR MORE INFORMATION.



Science Stage 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.



DUE TO RENOVATIONS, SCIENCE STAGE PROGRAMS ARE UNAVAILABLE UNTIL SPRING 2020. VISIT THE FIELD TRIPS PAGE ON OUR WEBSITE FOR MORE INFORMATION.



Mobile Programs AT YOUR SCHOOL

Bring the field trip experience to your school! The mission of all at-your-school programming is to promote equity of access to high-quality science learning opportunities in order to increase interest, ensure understanding, and demonstrate the relevance of science to all students’ lives. Activities are designed for all students regardless of socioeconomic status, learning abilities, etc.



Mobile Planetarium

GRADES	LENGTH	MAX. PARTICIPANTS
K-12	45 min.	20-30 students

Morehead can bring its planetarium shows to you!¹ Our mobile planetarium is an inflatable dome with a digital projection system that creates the full-dome experience at your school.² The mobile planetarium can accommodate wheelchairs and one teacher must accompany the students inside.

To accommodate the mobile planetarium, you must have a site with these requirements:

- Quiet indoor room** (if the mobile planetarium will be in a gym or play space, please arrange for other activities to be moved outside or to another room)
- Minimum clear floor space of 30 feet by 30 feet**
- Minimum ceiling height of 13 feet with no obstructions** (hanging light fixtures, fans, etc.)
- Two grounded 120-volt standard electric outlets**
- Clean, swept floor**
- Adjustable lighting, if possible**
- Air conditioning for visits occurring May–September**

¹ Priority scheduling is given to schools 90 miles outside of Chapel Hill or schools in Tier 1 counties.

² See pages 12–15 for a complete list of Morehead's currently available planetarium shows — any show with the icon can come to your school.

Morehead in Motion: Lab to Life

GRADES	LENGTH	MAX. PARTICIPANTS
6-12	75-90 min.	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.

TREERIGONOMETRY (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.



EXPECT A VISIT FROM MOREHEAD'S
NEW LAB TO LIFE VAN!

NEW!



GSK Science on Your Street Enrichment Program

GRADES
K-8

LENGTH
60-90 min.

MAX. PARTICIPANTS
30 students per class

SPONSORED BY



This Morehead educator-led program will challenge your students to innovate with hands-on science experiences and cutting-edge technology. With the GSK Science on Your Street educational vehicle, we can set up a classroom anywhere — from the gym to the parking lot! Science on Your Street activities are standards-aligned and recommended for specific grade levels. However, the program may be adapted for high school students, afterschool groups as well as special events such as festivals and science nights.

CHARIOT RACES

Recommended for grades 4-8

Discuss the use of chariots in different cultures throughout history before designing and building your own. Drive a Sphero robot to test the efficiency of your chariot.

CHEM-MESS-TRY

Recommended for grades 2-3, 5-8

Observe the creation of a vacuum to learn more about transitioning phases of matter. Explore methods of heat transfer. Concoct a cascade of colorful foam using everyday ingredients. Older students will experiment with polymers by mixing two liquids to form a solid, and discuss signs of physical and chemical changes.

CODING WITH CUBETTO

Recommended for grades K-3

Learn introductory computer science and practice writing algorithms for your classmates. Then go on an adventure and guide your new robot friend Cubetto on a journey, using coded instructions. Students will practice using maps and working in teams to accomplish their coding goals.

COSMIC CODING

Recommended for grades 4-8

Journey through space and time to learn about scientists from different backgrounds who helped explore our solar system and beyond! Use a Sphero robot to chart your own course and practice coding.

EXPLORE YOUR HABITAT

Recommended for grades 3-5

Discuss similarities and differences between Earth and other planets in our Solar System. Discuss how robotic explorers have investigated the planet Mars. Use coding and a real robot to explore a map of an Earth-like planet.

MISSION: INTERNATIONAL SPACE STATION

Recommended for grades 6-8

Simulate an astronaut team's extravehicular mission (EVA) outside of the International Space Station. Discuss the importance of robots. Design a robot model for use in outer space.

NEWTON IN MOTION

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

Learn about force and motion, inertia and other concepts from Newton's laws before applying this knowledge to launch rockets, pop balloons, and more. Older students will investigate applications of force and energy while building model roller coasters, and then experiment with graphing motion.

STAR POWER

Recommended for grades 3-4, 6-7

Mimic the movement of celestial bodies through our night sky, make a model of our solar system that fits into their pocket, or consider the stories behind seasonal constellations. Older students can pretend to be NASA engineers and build landing vehicles that explore rocky worlds or delve into NASA's research in exoplanets.

WEATHER WISE

Recommended for grades 4-5, 7

Explore basic principles of weather as well as specific weather phenomena. Students may role-play a water droplet moving through the water cycle, make a cloud in a bottle, or investigate the scientific tools used to monitor weather conditions.



EXPECT A VISIT FROM MOREHEAD'S
SCIENCE ON YOUR STREET VAN!



Science on Stage

GRADES
K-5

LENGTH
45-60 min.

MAX. PARTICIPANTS
200 students

IN PARTNERSHIP WITH  **NOVOZYMES**

Get your students excited about science! This program will captivate your student audience with interactive experiments and demonstrations performed by a Morehead educator in your gym or auditorium. Program content is aligned to NC Essential Standards, making Science on Stage a fun and unique way to supplement classroom learning.

GRADES K-2

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 program will have younger audiences on the edge of their seats as we introduce them to the wonderful world of science.

GRADES 3-5

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 program will amaze your students while reinforcing key scientific concepts.



SCHOLARSHIPS AVAILABLE

Brought to you in partnership with Novozymes and its generous support, Science on Stage visits will be free for the following counties: **Edgecombe, Gates, Granville, Greene, Halifax, Hertford, Nash, Northampton, Vance, and Warren**. Scholarship assistance available pending qualifications for additional counties.



Planetarium Shows

AT MOREHEAD + AT YOUR SCHOOL

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.



FIELD TRIP TO MOREHEAD



MOBILE VISIT AT YOUR SCHOOL



OPTIONAL SPANISH AUDIO TRACK

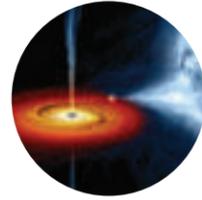
For a detailed list of each show's correlations with NC Essential Standards for recommended grades, visit moreheadplanetarium.org



ASTRONAUT

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

Space exploration is the greatest endeavor of humankind. Follow animated astronaut Chad as he takes you from Earth into space ... and beyond. Learn what it means to be an astronaut, including the physicality of launching into space and how weightlessness effects the human body. Discover the perils that lurk in space! Produced by the National Space Centre and narrated by Ewan McGregor.



BLACK HOLES: JOURNEY INTO THE UNKNOWN

Recommended for grade 7 (also suitable for grades 4–6 and 8–12)

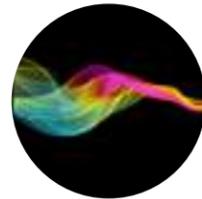
Imagine a place where time stands still, where the universal order breaks down, where the unimaginable becomes reality. It's no longer the stuff of science fiction — this show brings to life all that is fascinating and extreme in the world of black holes! Discover what science has taught us about these phenomena ... and what we must still learn. Produced by Museum Victoria and narrated by Geoffrey Rush.



CAROLINA SKIES

Recommended for grades 3–4 (field trips only), grades 5–12 (field trips & mobile visits)

This show focuses on stars, planets and constellations in our North Carolina sky. The presentation is live, led by a Morehead educator and adapted for different grade levels, so each show is unique! You might learn how to identify celestial objects visible to the naked eye, hear stories created by ancient cultures or explore the Milky Way in an exciting “fly-out” experience that travels through our galaxy and beyond!



COSMIC COLORS

Recommended for grades 2–12

Take a wondrous journey across the entire electromagnetic spectrum. Discover the many reasons for color — like why the sky is blue and why Mars is red. Then journey inside the human eye, investigate x-rays and see the actual color of a dinosaur. Get ready for an amazing adventure under a rainbow of cosmic light! Produced by the Daniel M. Soref Planetarium in cooperation with the Great Lakes Planetarium Association.



DYNAMIC EARTH

Recommended for grades 6–12

Explore the inner workings of Earth's climate system, following a trail of energy that flows from our Sun. Ride on swirling ocean and wind currents, dive into the heart of a hurricane, come face-to-face with sharks and whales and fly into fiery volcanoes! Produced by Spitz Creative Media in association with the National Center of Supercomputing Applications, Thomas Lucas Productions, Denver Museum of Nature & Science and NASA Earth Science. Narrated by Liam Neeson.



EARTH, MOON AND SUN

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

Learn to distinguish between myths and science in Earth, Moon and Sun. Follow Coyote, a character adapted from Native American oral traditions, and discover misconceptions about our home planet and its most familiar neighbors. Learn the basics of fusion and solar energy and why the Sun rises and sets. Examine the Moon's orbit, craters, phases and eclipses. Produced by Morehead.



GALILEO: THE POWER OF THE TELESCOPE

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

Travel back in time to witness the earliest experiments of Galileo Galilei, who discovered the four largest moons of Jupiter and made many other significant observations as a scientist and as an astronomer. Understand how the telescope has revolutionized our understanding of the universe. Experience how one person can shape the future of science! Produced by Soref Planetarium and narrated by Dava Sobel.



GROSSOLOGY AND YOU

Recommended for grades 3–5 and 7 (also suitable for grades 6 and 8–12)

Journey inside the human body with Scabby, Boogie and Flatus. Join our animated team to see the “gross” side of the human body. Produced by Morehead. Based on the book “Grossology and You” (© 2002 — text by Sylvia Branzei, illustrations by Jack Keely), published by Price Stern Sloan.¹



THE LITTLE STAR THAT COULD

Recommended for grades K–2

Follow “Little Star,” an average yellow star, in search of planets of his own to protect and warm. Along the way, meet other stars and learn what makes each star special. Followers of “Little Star” will also get their first look at our Solar System. Created by the Saint Louis Science Center and reproduced by Audio Visual Imagineering and Brevard Community College.



THE LONGEST NIGHT

Recommended for grades 1–12

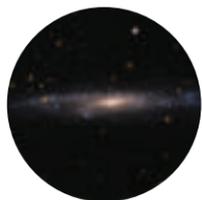
In this timeless fable of courage, generosity and renewal, a young girl leaves her family of traveling storytellers to embark on the quest that leads her to a dragon’s nest. What will she discover there, and how will it help her save a village? Produced by Morehead and featuring Paperhand Puppet Intervention.



MAGIC TREE HOUSE® SPACE MISSION

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

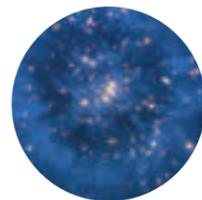
Travel with Jack and Annie, stars of the Magic Tree House® best-selling children’s book series, as they search for answers to a mysterious riddle they discover in a written note signed “-M.” Follow them on an exciting adventure as they meet a helpful astronomer and an astronaut. You’ll travel to an observatory and into space. Features Magic Tree House series author Mary Pope Osborne.



MOVING ALL AROUND

Recommended for grades K–2

This live show helps to sharpen students’ observational skills while teaching them about Earth and showing them how to find objects in the night sky. The show’s interactive format encourages questions and allows the Morehead educator to pace the show to the students’ needs.



PHANTOM OF THE UNIVERSE: THE HUNT FOR DARK MATTER

Suitable for grades 9–12

Immerse yourself in the exciting exploration of Dark Matter. This planetarium show journeys across space and time, speeding alongside particles before they collide in a visually stunning explosion of light and sound. Then, learn how scientists around the world are collaborating to track down dark matter... the hunt is on. Narrated by Tilda Swinton with sound by an Academy Award winning team at Skywalker Sound.



SOLAR SYSTEM ODYSSEY

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

Animated space explorer Jack Larson and a young stowaway explore our Solar System to find a new home base for humans, investigating the icy rings of Saturn, Jupiter’s volcano-ridden moon Io and the sub-zero methane lakes of Saturn’s moon Titan. Produced by Morehead.²



THE SUN: OUR LIVING STAR

Recommended for grades 6–12

The Sun has shone on our world for four and a half billion years. Discover the secrets of our star in this planetarium show and experience never-before-seen images of the Sun’s violent surface in immersive dome format.



SURVEYING THE SOLAR SYSTEM

Recommended for grades 3–5

This live show provides an exciting ride through our Solar System, with a closer look at Earth and several of its planetary neighbors. The show’s interactive format encourages questions and allows the Morehead educator to pace the show to the students’ needs.



TAKE FLIGHT

Recommended for grades 3–7

Ride along with brothers Wilbur and Orville Wright for an adventure through the history of flight, from Leonardo da Vinci to Chuck Yeager. Learn about the four forces of flight and fly across the Atlantic Ocean with Amelia Earhart! Produced by Morehead.



WE ARE STARS

Recommended for grades 6–12

What are we made of? Where did it all come from? Explore the secrets of our cosmic chemistry, and our explosive origins. Connect life on Earth to the evolution of the Universe by following the formation of hydrogen atoms to the synthesis of carbon, and the molecules for life. Narrated by Andy Serkis.

¹GROSSOLOGY® is a registered trademark of Price Stern Sloan, a division of Penguin Group (USA) LLC. “Addressing the Science of Really Gross Things: Engaging Young Learners in Biomedical Science Through a Full-dome Show and Supporting Curricula” is supported by a Science Education Partnership Award (SEPA), Grant Number # 1R25OD010522-01, from the National Institutes of Health (NIH). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of NCRR or NIH.

²The material contained in this planetarium show is based on work supported by the National Aeronautics and Space Administration (NASA) under grant award number NNX09AL78G. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of NASA.



North Carolina Science Festival

PROUDLY PRODUCED BY  MOREHEAD
PLANETARIUM+
SCIENCE CENTER

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 North Carolina Science Festival website: ncsciencefestival.org

As part of the North Carolina Science Festival, Morehead invites teachers to submit applications for the Festival's K-12 initiatives. If your application is selected, you'll receive free resources to conduct activities for your students.

DUKE ENERGY SCIENCE NIGHTS

Grades K-5

The Festival team distributes event kits to 170 elementary schools in North Carolina. Designed to help you host a fun family science night for your students and their families, each kit includes a planning guide, 10 hands-on activities and all materials for up to 200 participants.

Elementary schools, afterschool groups, PTAs, and upper-level schools interested in hosting for their local elementary school students are welcome to apply. **Applications are due September 30, 2019.**

SCIMATCH

Grades 6-8

The Festival team recruits dynamic and dedicated scientists from academia and industry to share their excitement about science with middle school students. Each visit is designed to inspire your students to consider science careers and to engage them in a fun, hands-on activity.

Middle school educators are encouraged to apply for a visit from a scientist to their classes.

NC GRAVITY GAMES

Grades 9-12

At the North Carolina Gravity Games, hosted in collaboration with Google and Appalachian State University, students design, build, and race their gravity-powered cars through the streets of Lenoir, NC.

High school teams from across the state are eligible to apply for funding to cover the costs of materials and transportation.

APPLY FOR OUR K-12 PROGRAMS ONLINE AT
ncsciencefestival.org/educators

Morehead Souvenir and Gift Bag Program

Do you want to make sure all your students have a souvenir from Morehead? No worries! Our Gift Bag options contain some of the most popular items from our gift shop, handpicked by us.

Contact our gift shop to learn about available options for the 2019-2020 school year.

 919-843-7997

Scholarships

Morehead's mission is to spread science education throughout the state of North Carolina. Through the help of our generous donors, we are able to offer scholarships for both field trips and mobile outreach visits to your area! Your school may qualify for scholarship assistance.

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

Pricing

FIELD TRIPS	Planetarium Show ¹ , Discovery Class or Science Stage Program		
		Student fee	Adult fee
	First show or class	\$6.25 per student	\$7.25 per adult
Additional show or class	\$4 per student	\$4 per adult	

MOBILE PROGRAMS	Morehead in Motion: Lab to Life						
		Base fee	Base time	Extended fee	Max. sessions ²	Max. participants	Session length
	One-day school visit	\$300	1 day	\$150/ additional day	3	30 per session	75-90 min.
	Mobile Planetarium ³						
	One-day school visit	\$425	1 day	\$150/ additional day	4	20-30 ⁴ per session	45 min.
	Weekend/evening visit	\$350	2 hours	\$75/ additional hour	1	20-30 ⁴	2 hours
	GSK Science on Your Street Enrichment Program						
One-day school visit	\$300	1 day	\$200/ additional day	3	30 per session	75-90 min.	
Weekend/evening visit	\$375	2 hours	\$75/ additional hour	1		2 hours	
One-day afterschool visit	\$200	2 hours	\$75/ additional hour	2	30 per session	60 min.	
Science on Stage Visit							
One-day school visit	\$300	1 day	\$200/ additional day	2	200 per session	45-60 min.	

TRAVEL FEES ⁵		
	Within 90-mile radius of Chapel Hill	\$50
More than 90 miles from Chapel Hill	\$200	

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 Mobile planetarium visit fees are subject to NC State and Local Sales & Use taxes applicable to the county in which the visit occurs.

⁴ Mobile planetarium capacity varies by age group. The mobile planetarium can also accommodate two adults in addition to student participants.

⁵ 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. Look for us during Fall 2019 at the Bridging the Gap conference.

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 12-15.) 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. The mobile planetarium walls can be lifted for wheelchair access. 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 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 by the day of 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 financially, and the third party must submit full payment at least two weeks in advance of the field trip.

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 at least 72 hours 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:
moreheadplanetarium.org

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



**MOREHEAD
PLANETARIUM+
SCIENCE CENTER**

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