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!
How to Make a Reservation

Choose the experiences you want for your Morehead field trip.

- Watch a fulldome show in Morehead's planetarium (see page 12)
- Practice hands-on skills in a discovery class (see page 5)
- Participate in a live Science Stage program (see page 6)

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 here: moreheadplanetarium.org/visit/field-trips

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.

Submit a mobile visit reservation form online here: moreheadplanetarium.org/outreach/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.
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.

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.

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

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 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

GRADE | LENGTH | MAX. PARTICIPANTS
-------|---------|------------------
K–12   | 45 min. | 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.
Morehead can bring its planetarium shows to you! Our mobile planetarium is an inflatable dome with a digital projection system that creates the fulldome experience at your school. 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
- Air conditioning for visits occurring May–September

1Priority scheduling is given to schools 90 miles outside of Chapel Hill or schools in Tier 1 counties.
2See pages 12-15 for a complete list of Morehead’s currently available planetarium shows — any show with the icon can come to your school.

#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.

NEW!
EXPECT A VISIT FROM MOREHEAD’S NEW LAB TO LIFE VAN!
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–3, 3–5, 6–7
Learn about force 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.

**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.

**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.

**Science on Stage**

**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 dynamic 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.

**SNOW DAYS**
Recommended for grades K–3 and 4–6
Students will engage in fun, hands-on winter-themed activities like building with foam, making Cotton Candy, and creating a frosty snow globe. This program will captivate the audience with interactive experiments and demonstrations performed by Morehead educators 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.
**PLANETARIUM SHOWS**

**PLANETARIUM SHOWS**

**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.

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**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.

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

**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 David Sobel.

**GROSSOLOGY AND YOU** *(Recommended for grades 3–5 and 7 (also suitable for grades 6 and 8–12))*


**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 Imagining 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干预.

**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 astronaut 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.

**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.

**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.

**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.

**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.

**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.

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North Carolina Science Festival

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: ncsiencefestival.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.

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.

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.

APPLY FOR OUR K-12 PROGRAMS ONLINE AT ncsiencefestival.org/educators
**Pricing**

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**Travel Fees**

1. **Planetarium Show**, Discovery Class or Science Stage Program
2. **Within 90-mile radius of Chapel Hill**
3. **More than 90 miles from Chapel Hill**

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**Mobile Programs**

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**Within 90-mile radius of Chapel Hill**

$50

**More than 90 miles from Chapel Hill**

$200

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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 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.

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**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 it important that each program be tailored to meet students' needs. Our program educators will work with teachers to ensure the learning experience supports their students' needs.

**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, or your school is seeking a custom program, please let us know! Morehead is continually expanding our 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 [Q] 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 Full Dome 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.

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**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.

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**More Questions?**

VISIT OUR WEBSITE: moreheadplanetarium.org
OR CALL OUR FRONT DESK AT 919-962-1236.