



FIELD TRIP GUIDE

CALL & BOOK TODAY!

MEET OUR TEAM



and math education (STEM) is the heart of what we do, and we are excited to continue to grow, explore, and learn with your group. Savannah Holland

Associate Director of Education Hablo español sholland@exploreum.com



INTERNSHIP OPPORTUNITIES

If you or someone you know above the age of 13 are interested in becoming an Exploreum Intern please contact us as education@ exploreum.com. Internships are great opportunities for aspiring scientists and future educators to gain real world experience working with groups of all ages while also working in a fun and exciting environment.

THANK YOU TO OUR ONGOING SUPPORTERS:

A MESSAGE FROM THE ASSOCIATE DIRECTOR

I look forward to your group's visit and the opportunity your students will have to explore the many exhibit spaces designed to inspire curiosity and interactivity. The Exploreum comes to life each day as students discover the world of science with our Education Team. Encouraging excellence in science, technology, engineering,













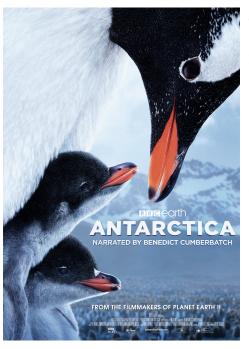






Thank you to these ongoing, annual sponsors: J.L. Bedsole Foundation, Infirmary Foundation, Ernest G. DeBakey Charitable Foundation, and The Crampton Trust. And special thanks to the City of Mobile for the maintenance and care of our Exploreum building.

PCI DIGITAL DOME THEATER



ANTARCTICA - FALL/WINTER 2023

It is a land of mystery and yet what happens here affects every single one of us. With never-before-seen footage, our story brings audiences to the farthest reaches of this wild and majestic continent. It is the coldest, driest, and windiest place on Earth with the roughest oceans and yet, weird and wonderful creatures thrive here in astounding abundance.

Using the latest underwater filming techniques, dive beneath sea ice, more than 6 feet thick, to experience the alien world of its seafloor—thousands of purple starfish scuttling to escape being entrapped by growing ice and elaborate jellyfish dancing a deadly dance. Swim alongside playful seals, soar above mountain peaks and vast penguin colonies and witness the largest congregation of fin and humpback whales ever filmed.

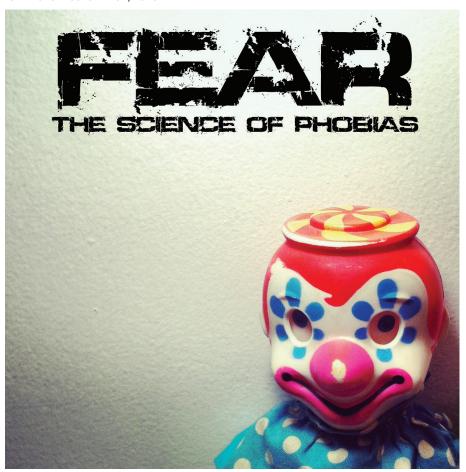


CUBA - FEBRUARY 2024

CUBA tells the powerful story of a land preserved in time, yet poised on the cusp of dramatic change. The nation's vibrant culture, meticulously maintained colonial architecture, and pristine ecosystems provide a vivid window into the island's history and spirit. CUBA will transport audiences across breathtaking landscapes, under the ocean surface to iridescent reefs, and into streets throbbing with music and dance in the heart of Havana.

Through the eyes of Cuban artists, historians, and scientists, the film provides an intimate look this vivacious island nation. Filmed exclusively for the giant screen format, CUBA reveals why Cuba continues to stir the imagination of the world.

JUNE 2023 - OCTOBER 31, 2023



Everyone is afraid of something, and we all have different thresholds for what frightens us. But no matter what it is that scares us, there's one thing we know for sure: FEAR causes our bodies to react in extreme ways. You might have experienced sweaty palms or broken out in a cold sweat before entering a doctor's office. Or maybe you felt anxious from being in a narrow space.

Fear is an emotion. It is generally induced when someone perceives a threat. Phobia, on the other hand, is defined as the "excessive or unreasonable fear of an object, place or situation." Simply put: Phobia = Fear²

FEAR: The Science of Phobias is an immersive experience that explores the historical and cultural significance of fear, its psychology and physiology, and how it affects our daily lives. Join us as we explore the science behind some of our greatest fears and embark on a journey of self-discovery to find out what "phobia" really is.

What are you afraid of?

FEBRUARY 1, 2024 — JULY 27, 2024

Cuba is a place of exceptional biodiversity and cultural richness, and now a new bilingual exhibition at the Exploreum will offer visitors fresh insights into this island nation just 94 miles from Florida's shores. With a close look at Cuba's unique natural history, including its native species, highly diverse ecosystems, and geology, ¡Cuba! also explores Cuba's history, traditions, and contemporary Cuban voices to inspire novel perspectives on this dynamic country. Organized by the American Museum of Natural History in New York, ¡Cuba! will be on view starting Spring 2024.

Technically an archipelago of more than 4,000 islands and keys, Cuba is the largest island nation in the Caribbean—and one of the region's most ecologically diverse countries. About 50 percent of its plants and 32 percent of its vertebrate animals are endemic, meaning they are found only on the island. The exhibition will include live animals, specimens, and lifelike models representing the island's distinctive wildlife, from a venomous mammal to the world's smallest bird. Biodiversity displays were developed by the American Museum of Natural History in close collaboration with scientists at the Cuban National Museum of Natural History (Museo Nacional de Historia Natural de Cuba, MNHN). Highlights include a re-creation of the Zapata wetlands, home to the endangered Cuban crocodile, and a reconstructed cave environment.









ICUBA! IS ORGANIZED BY THE AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK (AMNH.ORG) IN COLLABORATION WITH THE CUBAN NATIONAL MUSEUM OF NATURAL HISTORY.

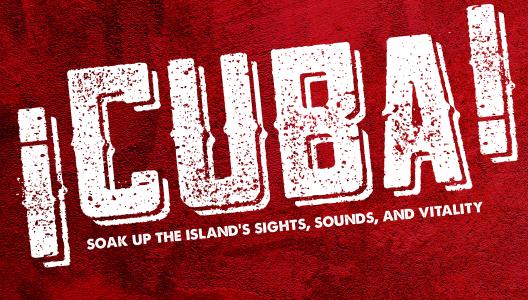
ICUBA! EXHIBITION



The exhibition opens with life-sized portraits of modern Cubans paired with short excerpts from interviews, offering a chorus of voices—from Cuba and abroad, young and old, urban and rural, pragmatic and optimistic. A long, open boulevard evoking the street life one might find in a Cuban city will invite visitors to discover Cuban culture through music, games, and a variety of interactive experiences. Other highlights include a pair of altars celebrating orisha religion, an Afro-Cuban spiritual tradition also known as Santeria; a gallery showcasing contemporary Cuban art; and a display on the cultivation of one of Cuba's most famous crops, tobacco. An introductory film about Cuba's history—including its first peoples, slavery, sugar industry, and the 1959 revolution—will provide visitors with historical context for contemporary realities.

The American Museum of Natural History has long collaborated with Cuban scientists at a number of institutions, including the MNHN, the University of Havana, the Cuban Botanical Society, and the National Enterprise for the Protection of Flora and Fauna. Museum scientists have led and participated in nearly 30 expeditions and field projects to Cuba for more than 125 years.

TITLE SPONSOR: CITY OF MOBILE
PREMIER SPONSOR: SWEET HOME ALABAMA
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CUBA EXHIBIT ONLY

\$12.00 Students \$6.00 Educators **CUBA EXHIBIT + MOVIE COMBO**

\$16.00 Students \$6.00 Educators

DISCOVERY DEMOS ARE APPROXIMATELY 15-20 MINUTES

ORGAN EXPLORATION

The human body is an amazing system of parts that work together. Join us as we take a tour of the Nervous, Circulatory, and Respiratory Systems through the exploration of real organs.

HEADS UP

Did you know the size of an animal does not determine what it eats, it's all about the teeth. Join us as we take an in-depth look at the skulls of certain animals to understand more about carnivores, herbivores, and omnivores.

SCIENCE OF ENERGY

What causes chemical reactions to be hot or cold? In this thermochemistry demonstration, students will experience both endothermic and exothermic reactions while they learn about energy and the laws of thermodynamics.

KITCHEN CHEMISTRY: PLAY DOUGH

Cooking is all about chemistry, and making playdough is a great example. In this demo, students will learn about mixtures, solutions, and the chemical reactions that take place to transform matter into new substances with different properties.

SCALY SURVIVAL

Lizards, Turtles & Snakes, Oh My! Calling all reptile lovers to join us as we learn fun facts about different reptiles and the crazy ways they've learned to survive and thrive.

INSIDE AN OWL PELLET

Pellets are a record of what owls have eaten, and scientists study them to learn more about the owl and the ecosystems in which they live. Join us as we learn about the owl's diet and its place in the food web.

SONIC FLAME TUBE

Ignite your students' interest in sound waves! The Sonic Flame Tube, also called a Ruben's tube, is a classic physics experiment that provides a spectacular visual demonstration of sound waves and resonance.

DRAGON'S BREATH

This explosive experiment demonstrates the basic principle behind the Dust Explosion phenomenon and illustrates the importance of surface area to rates of reaction. Students will learn about catalysts, physical and chemical reactions, and energy transfer.

DAVINCI MECHANICS

It's not that difficult. Bring the innovations of Leonardo da Vinci to life in this force changing demonstration. During this challenge, students will learn about the 6 simple machines that can be used to make work easier.

BIO-BOTS

Nature inspires innovation. Bio-Inspired Design is about learning concepts from nature and applying them to real-world technologies, like robotics. In this demonstration, students will learn about biomimicry, robotics, and how nature is helping us make advances in our everyday world.

LITTLE DISCOVERIES IS A PART OF OUR LEAP ACADEMY AND IT UTILIZES SCIENCE, ART, LANGUAGE, AND MATH ACTIVITIES (STREAM) TO PROMOTE EARLY LEARNING. LITTLE DISCOVERIES ARE FOR PRE-K 4 TO 6 YEAR OLDS AND ARE APPROXIMATELY 20-30 MINUTES.

BRIDGE BUILDING

Explore the world of simple engineering with this STEM challenge. Students will problem solve as they experiment with ideas of what bridge structure works best. Through the design thinking process, students will learn the importance of teamwork, patience, brainstorming, and prototyping.

ANIMALS OF THE ALABAMA COAST

Discover the life that surrounds us here in Mobile. This engaging adventure is a storytelling style puppet show featuring the Pupp-e-tree animals. Students will learn about biodiversity, urban ecology, and how to connect with science in our own backyard.

TURTLE SCIENCE

The Mobile Delta region is home to one of the most diverse populations of turtle species in the world. Through this hands-on interaction students will learn about turtle anatomy, their ecosystem and how to safely share environments with them.

FIZZY SCIENCE

Discover the world of fizzy science as we learn about acids, bases, physical, and chemical reactions. Students will conduct their own hands-on experiment and change variables to see, first hand, what happens.

SIMPLE MACHINES

Explore simple machines with this STEM challenge. This lesson will allow students to explore, through a hands-on activity, how inclined planes, pulleys, and wheel and axles can affect the speed and distance a car will travel going down, and back up, a ramp.

SMARTY PANTS

Discover the wonders of the human brain through a large-scale exploration of the ins and outs of the center of our nervous system. Students will have the chance to observe the different lobes of the brain and learn how they all work together to make us such smarty pants.

FROGGIE DISSECTION

Hop into learning as we take a softer approach to the traditional frog dissection. Students will use stuffed animal frogs to learn about their anatomy. Through a pretend dissection, our future biologist will learn about the importance of the heart, lungs, stomach, and much more.

CLASS BLASTS ARE APPROXIMATELY 30-45 MINUTES

BUGGING OUT WITH CHROMATOGRAPHY

This color changing chemistry lesson will keep students guessing. Through amazing hands-on experiments, students will investigate and learn about PH, mixtures and the four types of chromatography.

ROCKET REACTIONS

Blast off and discover the wonders of propulsion in this investigative class on how we send items into orbit. Students will learn about rockets and the principles of flight as they create miniature lift-offs of their own.

THE BALANCE OF ENERGY

Do you know how heat, energy, and motion work within the universe? In this class, students will use the Scientific Method while conducting endothermic and exothermic reactions as they learn about energy and the laws of thermodynamics.

CRACKING THE CODE

Everything about us is coded in the most fundamental blueprint...our DNA. This class will help students visualize this important molecule by extracting it from everyday fruit. Students will learn about DNA, its structure, and the parts of the cell.

ANIMAL ADAPTATIONS

Experience a live encounter with some of our resident animal ambassadors, like a bearded dragon, Dumeril's boa, or tarantula – and learn about how animal adaptations and their habitats go together in surprising and wonderful ways.

DISSECTIONS

CLASS SIZE: 15-30

DISSECTIONS ARE APPROXIMATELY 45-60 MINUTES

Let a member of our Education Leadership Team guide your students through a dissection of an animal or organ or your choice. Students work in teams of 2-4 depending on the specimen. All dissections are recommended for grades 5 and up. Specimen options are listed below:

GRASSHOPPER FROG SHEEP HEART* SEA STAR SHEEP EYE

*This experience involves the use of a scalpel. Ages 11 and up only for sheep heart dissections.

WORKSHOPS ARE APPROXIMATELY 45-60 MINUTES, EXCEPT WHERE NOTED.

CHANGING SEAS

When a change is made to Earth's waters, it can have a big impact on its biosphere. During this class, students will discuss, compare, and contrast different methods to attend to rising carbon emissions. Through experimentation, students will learn about Earth's systems, the pH Scale, and the effects of ocean acidification on all life.

NEWTON CARS PHYSICS

Nothing can get moving without forces pushing or pulling it along. Forces allow humans to walk, cars to roll, and rockets to fly. During this class, students will learn and experiment with Sir Isaac Newton's three laws of motion.

FORENSICS 101

Take an exploration through the investigative world of forensics. Students will learn about fingerprinting, hair and fiber analysis, and how proper evidence collection can make or break a case. They will then take a crash course in basic osteology and find out what forensic scientists do in cases where the only evidence is skeletal remains.

EXPLOREUM U STEM LAB

CLASS SIZE: 10-15

3-D PRINTING

If you are wanting to introduce 3D Design and 3D Printing to your students, you've come to the right place. Our hands-on class offers an introduction to the fundamentals of Computer-Aided Design (CAD) software and 3D printing. During this class, students will design and print a 3D object of their creation. (75-90 minutes)

CODEQUEST

Transform your student's love for technology into an exciting learning adventure. This class provides innovative, hands-on activities and challenges that propel learners of all levels to tech readiness. Students will explore the main components of coding and robotics to learn about their real-world value in everyday life.

GAMEWIZARDS

Play and write code from the very start of this Gaming adventure. In this class, students will learn about video game creation and be able to modify and combine built-in game assets. Through the use a visual programming language (VPL) inside of an Integrated Development Environment (IDL), students will construct a game of their own.

GALLERY EXPLORATION AND LABS



My BodyWorks and Mission Nutrition allow visitors to learn more about the skin they're in and how to make healthy choices. These galleries challenge visitors to test their physical fitness, explore whole systems, and learn about food for life. Within these galleries is the iHealthy Lab, an interactive, multifunctional health and biology laboratory. These galleries were developed in collaboration with Infirmary Health System.

AM/NS Calvert Curiosity Factory is one of our newest gallery additions. Featuring both classic and new tech, this area has everything from a Lego wall and parachute tubes to our laser and earthquake tables. Housed within this gallery is the ExploreTec STEM Lab. With 15 computer stations, 3D printers, robotics, drones and so much more, this lab is the perfect place for students to learn the technological skills that are essential for our future engineers.

Wharf of Wonder, designed for the smallest of our scientists, is a learning adventure for kids ages 0-6. Pre-kindergarten teachers can reserve a unique Wharf of Wonder field trip that includes hands-on activities and special programs for our youngest explorers. The exhibit area is filled with objects that foster dramatic play, promote tactile exploration, stimulate sensorimotor learning and encourage peer interaction.



Hands on Hall is a Project STE(A)M experience, focusing on Science, Technology, Engineering, Art and Math. This space encourages students to use problem solving and critical thinking skills as they work independently or collaborate on creative activities. Within the gallery you will find the Science Squad Headquarters. This lab offers big bang science in the areas of physics and chemistry.



Nature Pavilion is the home of our resident education critters. It's a great place to have an up-close encounter with snakes, lizards, cockroaches, and more. Guests will learn about the adaptations that allow our critters to survive and how humans can positively impact and protect life all around our changing planet. (Nature Pavilion operating times and encounters are subject to change.)

"SCIENCE TO GO" OUTREACH

Can't come to us, we'll come to you. Exploreum's Science To Go outreach has exciting programs designed to support your curriculum while making science fun for students of all ages. Whether big or small, community event, library, classroom, or beyond, our team of STEM educators will amaze with head-scratching science experiments, mind-blowing demonstrations, and dynamic lessons in astronomy, biology, chemistry, engineering, physics, and more. **Only available M-F during the academic school year.***

STEM CLASSROOM VISIT

- Program Length: 45 minutes long except where noted.
- Space Requirements: Classroom unless noted otherwise
- Mileage Charges: 50 miles round trip included: 63 cents/per mile after 50 miles
- 1 Classroom Program: \$250: maximum 30 students
- Each Additional Classroom Program: \$200

(must be the same program and be on the same day for discount to apply)

ANIMAL ENCOUNTER ORGAN EXPLORATION ROCKET REACTIONS

(May require rearranging desks) (requires high ceilings or outdoor)

A-MAZE-ING BOTS CHEMISTRY CATAPULTS

AUDITORIUM SHOW

- Program Length: 45-60 minutes
- Space Requirements: Large Gymnasium (smaller areas or lower ceilings may limit certain demonstrations)
- Includes: 1-2 Exploreum STEM Educators, 7-10 Exciting Demonstrations
- Mileage Charges: 50 miles round trip included: 63 cents/per mile after 50 miles
- 1 Auditorium Show: \$400: maximum 200 students
- Each Additional Auditorium Show: \$350 (Must be on the same day for discount to apply.)

FAMILY SCIENCE NIGHT

- \bullet Program Length: 2.5 hours; 1 hour teacher/volunteer training, 1.5 hour event
- Space Requirements: Large Gymnasium or Cafeteria
- Other Requirements: 12-15 teachers/event volunteers, 12 4ft-6ft tables
- Includes: 2-Exploreum STEM Educators, 12-15 Activities, Finale Science Demonstration
- Mileage Charges: 50 miles round trip included: 63 cents/per mile after 50 miles
- Family Science Night: \$950: maximum 350 students

(Activities are most appropriate for families and children in grades K-6)

CONTACT 251.208.6892 OR EMAIL EDUCATION@EXPLOREUM.COM FOR MORE INFORMATION.

OVERNIGHT EXPLORATIONS

Only available during the academic school year.*

Enjoy a rare opportunity to stay at the Science Center at night. Explore the exhibits and discover special programs during this private after-hours experience. We welcome all groups and tailor the experience to fit your needs.

Overnight Explorations are from 5:00pm to 7:00am Tuesday - Thursday and 5:00pm to 8:00am on Fridays. All Overnight Explorations must meet the following requirements:

- Minimum of 50 participants
- Must be kindergarten (accompanied by a parent) or older
- Chaperones: 1 adult required for every 5 children
- Invoice must be paid in full two weeks prior to scheduled event to finalize reservations

BASE PACKAGE:

\$45 per/participant and includes:

- Two Live Science Demos
- After-Hours admission to Exploreum's Permanent Exhibits**
- Pizza Dinner

EXPERIENCE ADD-ONS:

- Continental Breakfast \$4 per/participant
- PCI Digital Dome mission based film \$5 per/participant
- Traveling Exhibit** Call for Pricing
- * Availability subject to change based on holidays, blackout dates and weather.
- **Overnight Explorations do not include traveling exhibits, please call for pricing.

The Exploreum reserves the right to reject booking requests and entry into the science center should your group not meet requirements.

*Taxes and other fees not included.

ACTIVITY	TIME	CAPACITY	COST
Galleries	3 Hours	50-100 Per Gallery	\$10.00 All Schools
Digital Dome Movie Only	25-35 Minutes	165 Per Show	\$6.00 All Schools
Gallery & Digital Dome Movie	3 - 4 Hours	100-165	\$14.00 All Schools

ADDITIONAL EXPERIENCES - ONGOING

*Taxes and other fees not included.

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ACTIVITY	TIME	CAPACITY	COST
DISCOVERY DEMO	15-20 Minutes	30-40	+\$1.00/Student (Per demonstration.)
LITTLE DISCOVERIES (Field trip add-on.)	20-30 Minutes	15-25	+\$2.00/Student
CLASS BLASTS (Field trip add-on.)	30-45 Minutes	15-30	+\$3.00/Student
EXPLOREUM U (Field trip add-on.)	45-60 Minutes	15-30	+\$5.00/Student (Add-On) +\$11.00/Student (Standalone)
EXPLOREUM U STEM LAB	60-90 Minutes	10-15	+\$7.00/Student (Add-On) +\$15.00/Student (Standalone)

^{*}See page 7 for ¡Cuba! exhibit and movie pricing.

DISSECTION PRICING

*Taxes and other fees not included.

SPECIMEN	FIELD TRIP ADD-ON	STAND-ALONE		
FROG	+\$7.00/Student	+\$15.00/Student		
SHEEP HEART	+\$7.00/Student	+15.00/Student		
SEA STAR	+\$5.00/Student	+\$11.00/Student		
SHEEP EYE	+\$5.00/Student	+\$11.00/Student		
GRASSHOPPER	+\$4.00/Student	+\$9.00/Student		
Capacity for dissections is 15-30. Time is 45-60 minutes. Ages 11+ only for heart dissections.				

ALL OPTIONS ARE ONLY AVAILABLE DURING THE ACADEMIC SCHOOL YEAR.

FIELD TRIP POLICIES

PREPARING TO CONTACT THE EXPLOREUM

Please have the following information available when you contact us:

- Dates and times that you would like to visit
- The exhibits, movies and activities you would like to experience
- The total number of students and chaperones participating

WHAT THE EXPLOREUM REQUESTS OF YOU

In final preparation for your field trip, we ask that you:

- Call to inform us of any changes to the total numbers
- Review the teacher and chaperone guide to the Exploreum
- Prepare your students for the field trip
- Prepare you chaperones to fulfill their duties
- Prepare one check, drafted on a school account, for balance due upon arrival

WHAT TO EXPECT FROM THE EXPLOREUM

Our staff will do their best to accommodate your group's needs as closely as possible. After you have contacted us to reserve your field trip, you will receive a confirmation number and form that states the date and estimated costs involved with your visit. You will also receive a teacher and chaperone guide to the Exploreum. Itinerary will be available upon arrival the day of the event.

CANCELLATION POLICY

- The Exploreum reserves the right to cancel any reservations at any time.
- All group cancellations must be received in writing no later than four weeks prior to the event date. All refunds will be processed minus a \$25 administrative fee.
- Any cancellations received less than four weeks prior to the event will be refunded 50% up to one week before the event. Any cancellations received seven days or less prior to the event will be charged a 100% percent of the event.
- If you cancel your visit but reschedule for the same school year, no cancellation fee is charged. However if the second date is canceled any prepayments will be forfeited.
- All cancellations must come from the group leader.
- Class Blasts and Exploreum U activities, to which supplies must be ordered for the number of students attending (dissections, workshops, etc.), must be notified four weeks in advance to not receive a penalty. The Exploreum reserves the right to charge the group for the total number of items if notified less than four weeks from the date of visit.
- * If you have not received this information two weeks in advance of your field trip, please contact us immediately to ensure that your reservation is confirmed.

ASK ABOUT FREE TEACHER MEMBERSHIPS!

Visit the Exploreum anytime with your complimentary membership! Enjoy unlimited admission to exhibits as well as reciprocal benefits to more than 300 science centers worldwide! Call 251.208.6893 for more information!

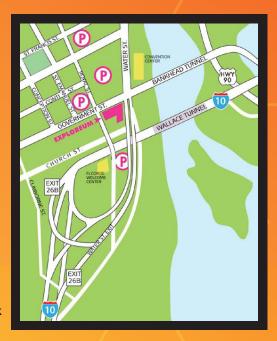


DIRECTIONS

Take the Water Street exit off of I-10 and turn left at the first traffic light on to Government Street. The Exploreum is located at 65 Government Street between Water Street and Royal Street. Parking is available at a number of locations in downtown Mobile. See map on the right for parking within walking distance.

PARKING

Drop off and pick up in front of the Exploreum on Government Street.
*The Exploreum can not be held responsible for any damage to your vehicle or property. Parking is subject to change based on availability. Long term parking at Cooper Riverside Park on Water St.



FIELD TRIP INQUIRIES

Monica Dunklin Reservations/Membership 251.208.6880 mdunklin@exploreum.com

CURRICULUM INQUIRIES

Savannah Holland Associate Director of Education 251.208.6892 sholland@exploreum.com



CONNECT WITH US!











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