

# EXPLOREUM

S C I E N C E C E N T E R



AUGUST 2022 - MAY 2023

**CALL & BOOK TODAY!**  
251-208-6880

**FIELD  
TRIP  
GUIDE**



# MEET OUR TEAM



## A MESSAGE FROM OUR EDUCATION TEAM

Imagine the endless possibilities of learning! Come to us at the Exploreum in downtown Mobile, or we can come to you in our “Science to Go” van! We are committed to being an excellent resource for teachers and students alike! Our educational programs are designed to intrigue and meet the needs of all ages and grade levels. The vast array of demos, classes and workshops will accommodate any group! We are here to ignite curiosity in our students and challenge them to explore our world!

We look forward to seeing you soon!

The Education Team

## THANK YOU TO OUR ONGOING SUPPORTERS:



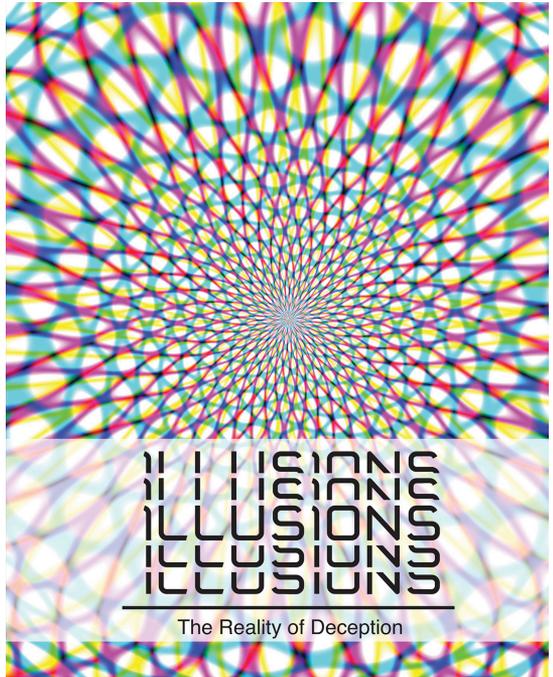
Thank you to these ongoing, annual sponsors: J.L. Bedsale Foundation, Infirmary Foundation, Ernest G. DeBakey Charitable Foundation, and The Crampton Trust. And special thanks to the City of Mobile for the maintenance and care of our Exploreum building.

# SPECIAL EXHIBITS SPONSORED BY MOBILE COUNTY DISTRICT 2

**JUNE 4, 2022 - SEPTEMBER 17, 2022**

Illusions is the latest in a series of in-house created exhibits by the Exploreum Science Center. This brand new exhibit will take an educational and entertaining look into the world of illusions. From the ordinary to the extraordinary, visitors will learn about the past, present, and future of these fascinating phenomena and how they shape our perception of reality.

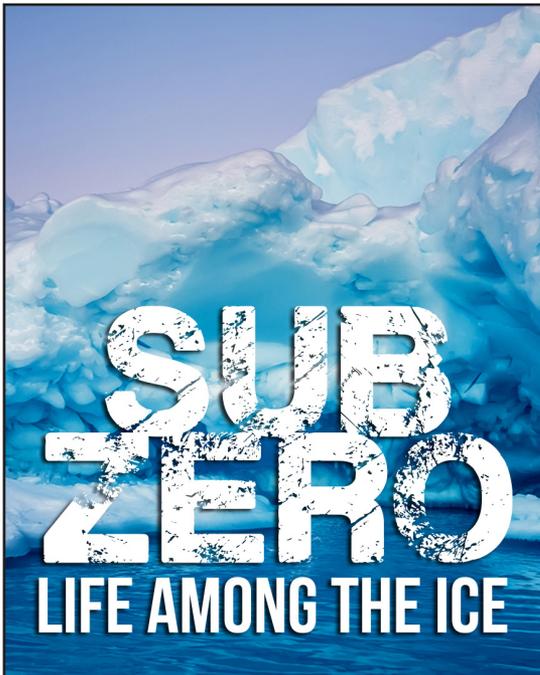
Through hands on activities, informational displays, and demonstrations, this exhibit will unveil the science and mystery behind the world of Illusions.



**NOVEMBER 1, 2022 - JANUARY 14, 2023**

## **SUBZERO: Discovering Life Among the Ice**

Visitors will engage in an interactive journey from the Arctic to Antarctica as they discover the worlds of the coldest places on Earth. Topics to be explored include animal diversity, polar ecosystems, engineering, and historical exhibitions.



# TOYTOPIA

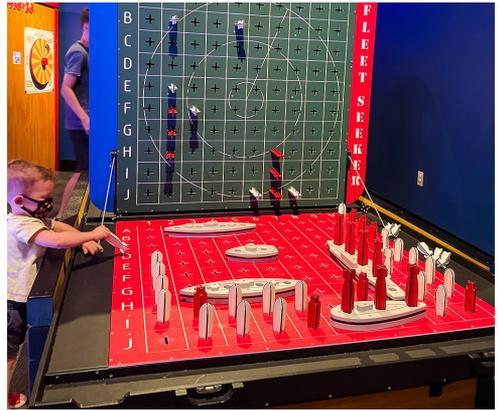
FEBRUARY 14, 2023 - MAY 22, 2023

Toytopia visitors will learn about the origins of toys, why they're so much fun, and why they create such great memories. Guests will also learn why some toys succeed and some fail, as well as which toys have become collector's items and why.

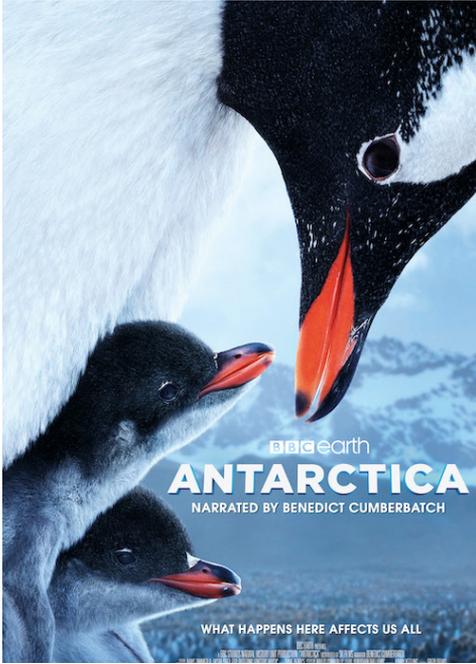
Visitors to Toytopia also discover which toys were popular in every decade of the twentieth century, how G.I. Joe talked without batteries, and whether their childhood toys are worth putting on eBay. Toytopia satisfies the curiosity of visitors of all ages with beautiful, compelling, and informative displays.

But Toytopia is not just about toys. Coinless video arcade games from the 1970s and 80s are available for play. And photo opportunities include a Monopoly car token big enough to sit in and the world's largest Etch-A-Sketch, standing at 8 feet high.

Several key players in the toy industry—such as Hasbro, Schylling, Schleich, Crayola, and Ohio Art—partnered on this exhibit, providing unprecedented access to a vast collection of rare artifacts, stories, information, and interactive elements for visitors of all ages.



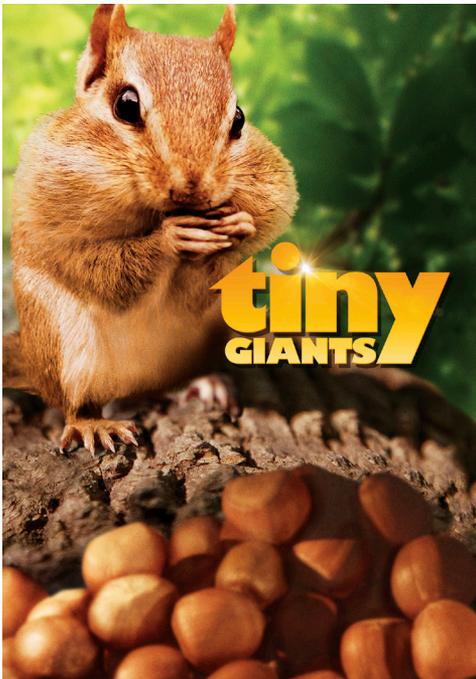
# 6K PCI DIGITAL DOME THEATER FILMS



## ANTARCTICA - FALL/WINTER 2022

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. Antarctica is the perfect fit for the Giant Screen.

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.



## TINY GIANTS - SPRING 2023

Come on an extraordinary adventure into magical worlds beneath our feet that most of us never see – one where life is lived at an extraordinary intensive pace, where everything we know seems turned on its head. Experience the hidden kingdoms of the Enchanted Forest and the unforgiving desert of the Wild West.

From BBC Earth, this is the story of a day in the life of two little heroes: a scorpion mouse and a chipmunk. For each of them this will be a day they never forget. It's a story of drama, danger and courage, of insight and revelation, a journey to discover and understand a new and fascinating natural history.

# DISCOVERY DEMOS

## ORGAN EXPLORATION

Explore the Brain, Heart, and Lungs through a hands-on experience with real organs! Students will take a tour through the Nervous, Circulatory, and Respiratory Systems.

## HEADS UP

Can you figure out what an animal eats just by looking at it? Learn more about carnivores, herbivores, and omnivores by taking an in-depth, hands-on look at their teeth to understand more about the similarities and differences between the three.

## USE IT OR LOSE IT

What causes chemical reactions to be hot or cold? Students will experience both endothermic and exothermic reactions through a series of chilling and explosive experiments.

## KITCHEN CHEMISTRY: PLAY DOUGH

Chemical changes in the Kitchen? Mixing together different ingredients can make a change. Students will learn that we can transform matter into new substances with different properties.

## POLYMERS 101

Join an Exploreum educator on a journey to investigate polymers! From plastic to fabric, these macromolecules change and create many items that influence everyday life! See the build up – and break down – of these amazing creations!

## SCALY SURVIVAL

Come check out some of the coolest animal adaptations in town at the Exploreum. Students will have the opportunity to learn about different reptiles and the crazy ways they've learned to survive and thrive.

## INSIDE AN OWL PELLET

Ecologists study what animals eat to understand how healthy an ecosystem is. Join us for an Owl Pellet Dissection and learn about some of the smallest members of your neighborhood.



# Little DISCOVERIES

PRE-K THROUGH 1ST GRADE

Little Discoveries was started in an effort to bring the core principles of STEM education to our littlest scientists. Proudly sponsored by the Community Foundation.

## WIND AND MOTION

Discover the many ways that wind can move objects in a lesson inspired by Gilberto in *The Wind*. Students will observe items with different characteristics and how they behave differently with the force of wind in an engaging hands-on activity.

## BRIDGE BUILDING WITH BILLY GOATS

Discover the world of simple engineering to find out how bridges are built to carry the weight of traffic. The classic tale *Three Billy Goats Gruff* will serve as the inspiration for a hands-on project where students will build and test different bridge models.

## SOLID, LIQUID, GAS

Discover physical science and learn what matters about matter. Through observational and hand-on opportunities students will learn about the three most common states of matter.

## ANIMALS OF THE ALABAMA COAST

Discover the life that surrounds us here in Mobile by listening to the animals that share our neighborhoods. This engaging adventure is a storytelling style puppet show featuring the PNC Pupp-e-tree animals.

## SINK OR FLOAT

Discover the science of buoyancy in this exciting watery lesson. Students will predict, test and reveal whether an object will sink or float.

## TURTLE SCIENCE

Discover more about turtles with projects inspired by Dr. Seuss' classic *Yertle the Turtle*. The Mobile Delta region is home to more species of turtles than anywhere else on Earth. This hands-on activity will help students understand why these creatures are so important.

For some traveling exhibits, themed Little Discoveries programs may be offered. Contact 251.208.6880 for more information. Little Discoveries are approximately 20-30 minutes.



# CLASS BLASTS

## BUGGING OUT WITH CHROMATOGRAPHY

Come in for some surprising science! In this class, students will investigate the pH scale and discover the amazing reactions that result in hands-on experiments! This color changing chemistry lesson will keep students guessing!

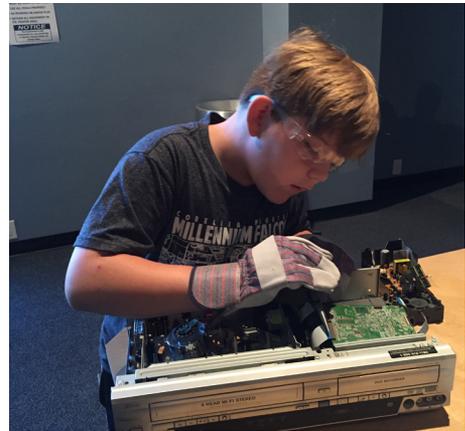
## INTRO TO URBAN ECOLOGY

Do you know that story about the country mouse and the city mouse? Are cities a part of nature? Can you name some of the animals that you share your neighborhood with? Discover types of wildlife that have learned to thrive in the city



## LITTLEBITS: BUILD SOMETHING THAT DOES SOMETHING

Light up your circuit boards and imaginations with littleBits! Students will design, build and test the ability of their circuit prototypes. After construction, students will finish by explaining their invention and demonstrating how it works.



## ROCKET REACTIONS

What makes a rocket propel upwards? Discover the wonders of propulsion on this investigative class on how we send items into orbit! Students will learn about the different rocket systems and even explore some miniature lift-offs of their own!



\*All Class Blasts are approximately 30-45 minutes long.

# EXPLOREUM U

## RENEWABLE RECOVERY!

How would you change the world? In this class, students will investigate bioenergy and learn how scientists are working together to create better, more sustainable products and energy. From biodegradability to examining different feedstocks such as switchgrass, students will discover what the future could look like through a series of hands-on, engaging activities.

## BENEATH YOUR FEET

Where does the ground beneath your feet come from? Learn some of the biologic and inorganic methods that create soil and sand. By the end of the class you will know what a detritivore is and what water does to rocks.

## FORENSICS 101

Take an exploration through the investigative world of forensics! Students will study 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

## 3-D PRINTING

3D printing is a component of the maker movement, which has benefits to communities, education, entrepreneurship, and traditional enterprises. In this lesson, students will assimilate knowledge of a 3D builder software to design an ingenious 3D object of their creation. Additionally, students with amass knowledge of 3D printer components to consequently 3D print the 3D models they design. (Coming Fall 2022.)

## PRINCIPLES OF FLIGHT

Presented by Airbus, this workshop focuses on the physics of flight. Students will conquer 2-Dimensional motion by becoming more familiar with the basic concepts of thrust, lift, and drag. Students will then use these concepts to manipulate vector characteristics in a hands-on flight activity.



\*All Exploreum U workshops are approximately 45-60 minutes long.

# DISSECTIONS

## GRASSHOPPER

Does science bug your kids out? Students will get up close and personal with a grasshopper, as they examine how this unique creature's functions support survival, growth behavior and reproduction. Students will also investigate all parts of these insects from the outside in, and record their findings on a data sheet.

## FROG

Explore the both aquatic and terrestrial creature that has it all. Students will observe the external and internal structures of frog anatomy. Students will discover comparative anatomy while learning about respiration, circulation, and much more!

## HEART

For this in depth dissection, students will use a real heart as a model, to evaluate the functions of the organ in the cardiovascular and respiratory system. They will investigate the valves and chambers to reveal each areas function. Then journey through the electrical waves of the heart with a real electrocardiogram.

## SEA STARS

New name alert! Starfish are now called sea stars. Students will explore the exterior and interior anatomy of echinoderms for an up close investigation of one of the ocean's greatest predators.

## SHEEP EYE

What's beneath the surface? Students will take an in depth look at the anatomy of the eye, learning from front to back all the elements of this complex super sensory organ.



\*All dissections are approximately 45-60 minutes long.

# GALLERY EXPLORATION



**My BodyWorks and Mission Nutrition** allows visitors to learn more about the skin they're in and how to live life to the fullest by making healthy choices. The My BodyWorks and Mission Nutrition gallery challenges visitors to test their physical fitness, explore whole systems, and learn about food for life. This innovative and technologically advanced gallery was developed in collaboration with Infirmiry Health System.



**Hands on Hall** is a Project STE(A)M experience, focusing on Science, Technology, Engineering, Art and Math. This gallery is an ever-evolving and organic place born from the idea that playful invention cultivates curiosity and innovation. This space encourages students to use problem-solving and critical thinking skills as they work independently or collaborate on creative activities. Activities include parachute building and testing, Airbus Flight Challenge, bridge building and much more.



Created in partnership with AM/NS Calvert, Curiosity Factory is one of our newest gallery additions. Featuring both classic and new tech, this area has everything from our Lego wall, wind tunnels, and several other interactive learning stations.

Students can learn all about construction and engineering, basic flight principles, and more in this unique and fun gallery.



Designed for the smallest of our scientists, the **Wharf of Wonder** 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.

\*Galleries may change based on traveling exhibits.

# DEMONSTRATION DESTINATIONS

## iHealthy HEALTH SCIENCES LAB

The iHealthy Lab is an interactive, multifunctional health and biology laboratory with experiments and demonstrations that will tantalize your taste buds and fuel your appetite for science! Visit the iHealthy Lab with experiments and activities. Sponsored by Infirmiry Health.



## SCIENCE SQUAD HQ

Are you adventurous? Do you enjoy experiments? Do you love big bang science? Then you might be the person we are looking for! Come visit the Science Squad Headquarters and see if you have what it takes to become a member of our elite team!



## AM/NS CALVERT EXPLOREUM STEM LAB

The Exploreum has partnered with AM/NS Calvert and Exxon to bring us a new and improved ExploreTec Lab for STEM education. The new lab consists of 15 new desktop computers, 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!



\*Galleries may change based on traveling exhibits.

# SCIENCE TO GO... VROOM!!!



Call 251-208-6849 or email [omoye@exploreum.com](mailto:omoye@exploreum.com) for booking and venue requirements.

Exploreum's Science To Go! program features an energetic team of science educators who can't wait to bring exciting, hands-on, curriculum-based demonstrations to school assemblies and individual classrooms! This talented team of science techs will educate and entertain your students, grades K-8. Our outreach programs consist of classroom visits, auditorium shows, and family science nights.

## **CLASSROOM VISIT** (\$250 for a class of 30, \$200 per additional class)

Let the Exploreum come to you with our exciting Science to Go! program! During these 45 minute long programs, members of the Exploreum Science Squad will come to your school or classroom and demonstrate some of the most fascinating areas of science! The Exploreum Science Center offers many different themes that can be tailored to your teaching topics. Some of our popular topics are Chemistry, Engineering, Environmental, and Earth and Space Sciences.

Please call Olivia Moye at 251-208-6849 or at [omoye@exploreum.com](mailto:omoye@exploreum.com) for more information on how to bring these amazing outreaches to your school or event!

**Science To Go! is made possible by Impact 100.**



### **AUDITORIUM SHOW** (\$400 for 45- 60 minutes, additional show \$350)

Are you ready for a real show? Let the Exploreum show you how it's done! Members of the Science Squad are packed and ready to come perform some of their most amazing experiments and educate guests of all ages! Experiments covering chemical reactions, explosions, and liquid nitrogen will have guests coming back for more!



### **FAMILY SCIENCE NIGHT** (\$950 - Includes 1-hour of teacher training and 2-hour family event ending with a Science Experiment Finale)

Family Science night is an opportunity for students and their families to develop a love and appreciation for science and the world around them. This program brings our educators and their expertise to teachers, students, and their families for a night that will foster a lifelong love of learning through a series of 12-15 STEM based science activities. Exploreum Educations will travel to the event location and set up an hour long training session for 12-15 teachers or event volunteers. This will familiarize the teachers with the activities they will be presenting with the Exploreum Educators throughout the night and allow for the programming to be reproduced in a classroom setting. This unique event offers not only training for teachers but, more importantly, allows for families to bond over engaging STEM activities presented throughout the night at each of these stations. These family nights are best suited for up to 350 kids plus adults.

# OVERNIGHT ADVENTURES

Explore the Science Center after hours! Overnight Camp-Ins and Almost Overnights offer fun, unique ways to experience science behind the scenes for an evening of education and fun. Almost Overnights end at 10:00 pm, while Overnight Adventures continue until the sun comes up! (**Only available Memorial Day through Labor Day, Friday night through Saturday mornings.**)

## **Almost Overnights: (6:00 PM to 10:00 PM)**

An Almost Overnight offers many of the same experiences of a full Overnight Camp-In, but allows you to sleep in the comfort of your own bed! This after-hours event for groups of 35 or more includes private shows, hands-on science and unconventional ways to learn from 6:00-10:00 pm!

All Almost Overnights include:

- One Live Science Demo
- Time to explore the Exploreum's Permanent Exhibits after dark\*
- Hands-On Educational Programing
- One film (minimum 75 guests)

\*Almost Overnights and Overnights do not include our traveling exhibits, please call for pricing.

Cost:      \$20.00 (plus \$6.00 for pizza) per child  
              \$15.00 (plus \$6.00 for pizza) per chaperone  
              (we require one adult chaperone for every 10 children)

## **Overnight Camp-Ins: (6:00 PM to 8:00 AM)**

Enjoy a rare opportunity to stay at the Science Center at night. Explore the exhibits, discover special programs and set up camp in front of your favorite exhibit during this exclusive after-hours experience. Don't miss this memorable overnight adventure! We welcome scouts, families, teachers, teams, retreats, small groups or large groups.

All Overnight Adventures include:

- Two Live Science Demos
- Time to explore the Exploreum's Permanent Exhibits after dark\*
- Hands-On Educational Programing
- One mission based film

\*Almost Overnights and Overnights do not include our traveling exhibits, please call for pricing.

Cost:  
\$40.00 (plus \$6.00 for pizza or \$9.00 for pizza & muffins) per student  
\$25.00 (plus \$6.00 for pizza or \$9.00 for pizza & muffins) per chaperone (we require one adult chaperone for every 10 children)

**Prices are based on groups with a minimum of 35 students.**

We look forward to hearing from you! For any further questions and/or to schedule a Camp-In, please contact us at (251) 208-6869 or [cbarlow@exploreum.com](mailto:cbarlow@exploreum.com).

# RATES

\*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.

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 (Add-On) (+\$5.00/Student (Standalone) Per demonstration.)
CLASS BLASTS (Field trip add-on.)	30-45 Minutes	15-30	+\$5.00/Student (Add-On) (+\$10.00/Student (Standalone) Per demonstration.)
EXPLOREUM U (Field trip add-on.)	45-60 Minutes	15-25	+\$7.00/Student (Add-On) (+\$15.00/Student (Standalone) Per demonstration.)
EXPLOREUM U STEM LAB	45-60 Minutes	10-15	+\$7.00/Student (Add-On) (+\$15.00/Student (Standalone) Per demonstration.)

## DISSECTION PRICING

\*Taxes and other fees not included.

SPECIMEN	FIELD TRIP ADD-ON	STAND-ALONE
FROG	+\$7.00/Student (Per dissection.)	+\$14.00/Student (Per dissection.)
SHEEP HEART	+\$7.00/Student (Per dissection.)	+14.00/Student (Per dissection.)
SEA STAR	+\$5.00/Student (Per dissection.)	+\$10.00/Student (Per dissection.)
SHEEP EYE	+\$5.00/Student (Per dissection.)	+\$10.00/Student (Per dissection.)
GRASSHOPPER	+\$4.00/Student (Per dissection.)	+\$8.00/Student (Per dissection.)

Capacity for dissections is 15-30. Time is 45-60. Ages 11 and up only for sheep heart dissections.

**ALL OPTIONS ARE ONLY AVAILABLE LABOR DAY THROUGH MEMORIAL DAY.**

# 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 form and number stating the date, tentative schedule and estimated costs involved with your visit. You will also receive a teacher and chaperone guide to the Exploreum.

## CANCELLATION POLICY

- The Exploreum does reserve 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 cancelled 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 number of students attending (dissections, workshops, etc.) must be notified four weeks in advance to not receive penalty. The Exploreum reserves the right to charge the group for 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!

# EXPLOREUM

S C I E N C E C E N T E R

## EXPLOREUM HOURS

Closed most Sunday and Mondays  
Tuesday-Thursday  
9:00am-4:00pm  
Friday-Saturday  
9:00am-5:00pm  
Sunday  
12:00pm-5:00pm

## 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.

## INQUIRIES

Monica Dunklin  
Education Coordinator  
251.208.6880  
mdunklin@exploreum.com



## CONNECT WITH US!



WWW.EXPLOREUM.COM  
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