NEW TRAVELING EXHIBITS

EcoDiscovery Center
Prehistoric Florida
Storm Center
Everglades Airboat Adventure
Florida Water Story
Otters At Play
Keller Science Theater

Museum Exhibits
Powerful You!
Go Green!
Aviation Station
Florida EcoScapes
The Discovery Center

For The Classroom
STEM Distance Learning
FREE Classes (BECON)
See page 18 for dates and details.

Science Field Trips and Outreach Programs

A PDF of this guide is available at www.mods.org
**AMAZING 3D FILMS in our UPDATED IMAX THEATER!**

**Teacher’s Note**

**IMAX Films Meet**
**Next Generation**
**Science Standards and Common Core State Standards**

- IMAX® films are selected for their educational content as well as their visual and dramatic impact.
- Our films meet many NGSS/CCSS such as:
  - The Practice of Science
  - The Characteristics of Scientific Knowledge
  - Properties of Matter
  - Earth Systems and Patterns
  - Diversity and Evolution of Living Organisms
  - Organization and Development of Living Things
- IMAX® films present unique opportunities to integrate visual arts with required core content areas.
- More detailed critiques (including NGSS/CCSS) are available upon request.

**WHAT’S NEW?**
- All NEW Luxury Seats
- NEW 60 feet x 80 feet IMAX Screen
- NEW Sound System
- NEW Digital Projector to complement our 15/70 IMAX Film Projector

**NOW SHOWING IMAX®3D FILMS for 2014-2015**

**HUMBACK WHALES 3D**

Humpback Whales 3D will take your students from the clear turquoise waters of the South Pacific to Africa, Hawaii and Alaska. The fifty-foot whales will appear life-size and students will swim alongside them, and be entertained by their high-spirited, full body acrobatics as the whales leap, twirl, lung and splash their way onto the giant screen.

**Island of Lemurs: Madagascar 3D**

Island of Lemurs: Madagascar 3D is the incredible true story of nature’s greatest explorers — lemurs. This film will take you on a spectacular journey to the remote and wondrous world of Madagascar. Lemurs arrived in Madagascar as castaways millions of years ago and evolved into hundreds of diverse species but are now highly endangered.

**Journey to the South Pacific 3D**

Journey to the South Pacific 3D takes you on a breathtaking adventure to the lush tropical islands of remote West Papua. Join Jawi, a young island boy, as he takes us on a journey of discovery to this magical place where we encounter whale sharks, sea turtles, mantas rays, and other iconic creatures of the sea.

**A Message from the President**

We are pleased to announce the launch of our new STEM Center for Education and Career Development, a Museum initiative that seeks to prepare students for success by raising the level of STEM education, instruction and career interest and to create a science literate community by increasing awareness of and engagement in STEM.

To accomplish these goals, the STEM Center will offer a number of specialized opportunities to advance knowledge and engagement in Science, Technology, Engineering and Math (STEM). New this year are:

- Internships for students ages 14-16. Students will collaborate in teams to research and produce a science show or community awareness project that will illuminate a basic science principle or issue (see page 20 for more information.)
- Two-year internships for high school juniors. Students will earn volunteer service hours, college credit, learn how to build an APP and receive a stipend while advancing their knowledge in STEM subjects (see page 21 for more information.)
- Extended Learning Opportunities for 75 sixth grade ‘bubble’ students. Crystal Lake Middle School and the Museum will offer Discovering Success: An Initiative to Increase High School Graduation through STEM as part of the Community Foundation of Broward’s ‘School is Cool’ movement. Students will be immersed in real-life STEM experiences at school and at the Museum, and family participation and support will be encouraged in a variety of ways.

The goal of each of these programs is to provide firsthand experiences for youth to build self-confidence, sense of self, interpersonal communication and leaderships skills, and to inspire youth by cultivating and furthering an interest in STEM education and careers.

As always, we will offer spectacular films, traveling exhibits, labs, demos and outreach to support your curriculum. Find out all about them in this publication! And two major areas will be renovated: the AutoNation IMAX 3D Theater will reopen in early October with a new giant screen, new luxury seats, new powerful sound system and the addition of a digital projector to complement our 15/70 film projector. Then in mid-December, our aviation exhibit hall will be completely renovated and will be renamed To Fly. An exciting new feature will be a 7D capsule theater offering a multi-sensory experience that will be free to students on school field trips.

Kim L. Cavendish
President/CEO

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- EcoDiscovery Center and Museum Exhibits 2 - 7
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The mission of the Museum of Discovery and Science is to provide experiential pathways to lifelong learning in science for children and adults through exhibits, programs and films.
The EcoDiscovery Center, a 39,000-square-foot expansion of the Museum of Discovery and Science that more than doubled the Museum’s exhibit and program space, offers more dynamic hands-on explorations. Students can try out the Everglades Airboat Adventure, experience hurricane force winds in the Storm Center, dig for fossils alongside a giant prehistoric megalodon, get close to a confrontation between a saber-toothed cat and an Imperial Mammoth, learn about protecting and conserving the Everglades and Florida’s natural resources, and follow the natural path water takes through Florida. Students can explore the physical properties of water while enjoying the playful antics of North American river otters in their two-story indoor/outdoor habitat. The new wing also features the Mangurian Foundation Lifelong Learning Center with four labs and the 100-seat Keller Science Theater with comfortable seating and technical features to support lectures, exciting science demonstrations, and presentations by our community partners.

**EcoDiscovery Center**

Students can explore the Everglades Airboat Adventure, experience hurricane force winds in the Storm Center, dig for fossils alongside a giant prehistoric megalodon, get close to a confrontation between a saber-toothed cat and an Imperial Mammoth, learn about protecting and conserving the Everglades and Florida’s natural resources, and follow the natural path water takes through Florida. Students can explore the physical properties of water while enjoying the playful antics of North American river otters in their two-story indoor/outdoor habitat. The new wing also features the Mangurian Foundation Lifelong Learning Center with four labs and the 100-seat Keller Science Theater with comfortable seating and technical features to support lectures, exciting science demonstrations, and presentations by our community partners.

**Museum Exhibits**

**Everglades Airboat Adventure**
Hop on board our 20-person airboat and take an amazing journey in the Everglades without ever leaving the Museum! Leave the bug spray behind as you embark on an adventure through one of our most cherished national parks. Experience the twists, turns and stops of a simulated airboat ride as you and the other passengers learn about the water, weather, plants and animals that call these wetlands home. This ride adventure will help students understand the complex systems developed to protect, maintain and distribute water in Florida.

Supported on a six-point pivot system, this simulated airboat transports visitors to the Everglades for an adventure they won’t soon forget. An immersive film experience, created by award-winning IMAX® cinematographer James Neihouse, allows riders to get a real sense of the ecosystem around them in amazing detail.

**Prehistoric Florida**
Step into the mouth of a giant megalodon, an extinct species of shark that lived many millions of years ago, and live to tell the tale. Go 65 million years back in time and get a new perspective on Florida’s prehistoric past and how it was shaped by climate change and changes in sea levels. Become a fossil hunter and dig for fossilized shark teeth and an archelon, the largest turtle that ever existed. Get close to a confrontation between a saber-toothed cat and an Imperial Mammoth and learn how they came to live in ancient Florida.

Learn why evidence of human habitation has been found far out in the Gulf of Mexico. Discover how melting glaciers affect sea level rise. Dig through time in simulations that illustrate the amazing diversity of geology, flora and fauna that have populated Florida through eons of time.

**Otters at Play**
Active both day and night, North American river otters have a curious and animated nature, entertaining visitors with their hunting and chasing behaviors. In the EcoDiscovery Center, the otters live and play in their own two-story, indoor/outdoor habitat, complete with swimming pool and waterfall. The otters’ playful world can be viewed underwater on the first floor or from above from the second floor observation area.

As they are being entertained by these semi-aquatic mammals, students will also learn about the challenges faced by Florida’s native animals from human encroachment, invasive species, and other predators. They will also learn that otters are very vocal and communicate with one another using a large variety of calls such as whistles, buzzes, twitters, staccato chuckles and chirps. From their whiskers to their webbed feet, our family of river otters educate visitors about what it takes to keep ecosystems vibrant and healthy.
**Storm Center**
Feel the rush of hurricane force winds in the hurricane simulator or view some of our most infamous hurricanes on a 60" digital globe. Be prepared, these changing patterns in nature can be violent and dangerous but here at Storm Center it’s all fascination and interactive fun.
Storm Center offers students a chance to touch the vortex of a 10-foot tornado or generate a cloud. They can also peer into a plasma ball, representing the state of matter that lights up the air as lightning. Students can simulate their own storm report on TV in the news studio and compete in an activity to build a sturdy house while a hurricane is approaching.

**Florida Water Story**
H₂O is the star of this story! Learn what this little molecule is composed of and just what it can do. This interactive exhibit not only explains the importance of water here in Florida but how it flows and transforms from our aquifers to the air and sea. Learn how the aquifers that underlie Florida provide our fresh water. Experiment with the effects of wet and dry seasons on a giant Florida water table. Interactive devices will challenge students to divide up Florida’s water between people, farming and nature and realize the outcome of their decisions.

**Powerful You!** Presented by Broward Health
This exhibit features four exciting zones: Powerful Team, Powerful Pulse, Powerful You, and The Cutting Edge, highlighting the amazing miracle of your body and the tools used by health professionals to keep you healthy! Students will be able to use robots to conduct simulated surgery, drive a DUI simulator, learn all about the importance of the “golden hour,” learn how to stay heart healthy and test their flexibility, balance and heart beat.

**Mangurian Foundation Lifelong Learning Center**
The Mangurian Foundation Lifelong Learning Center, located within the new EcoDiscovery Center, has four fully-equipped learning spaces that can be converted to either labs or classrooms. In the learning center Museum staff deliver stimulating educational programs during student field trips, day camps, or overnight camp-ins.

**Keller Science Theater**
Students can enjoy exciting science shows and presentations in the Keller Science Theater. Classes can watch demonstrations of physical and chemical phenomena, live animal shows, and special science presentations. Learn about everything from liquid nitrogen to alligators in our well-equipped theater presented by our knowledgeable and well-trained staff. Our enthusiastic staff members have the ability to turn any science topic into an unforgettable experience of discovery and exploration. The theater has comfortable seating for up to 100 students, and can support film presentations, internet based programs, and a variety of live presentations.

**Florida EcoScapes**
This bi-level ecology exhibit allows students to discover one of the world’s most unique ecosystems. Featuring hundreds of living and replicated plants, animals and habitats and one of the largest living captive Atlantic coral reefs on public display, this immersive exhibit teaches important environmental lessons.

**Podcast: EcoScapes Tour and the Florida Water Story**
This tour will guide you through the EcoScapes exhibit. The podcast can be downloaded for free from www.mods.org/exhibits/ecoscapes.htm.
Museum Exhibits

Aviation Station
Students will have a blast exploring the many interactive exhibits in Aviation Station. Their hands-on experience begins by climbing into three different replica cockpit simulators: the Lockheed-Martin F-35 Joint Strike fighter; the Edge 540, an aerobatic single engine aircraft; and the Vought F4U Corsair, a WWII fighter plane.

RENOVATED AVIATION EXHIBIT OPENS DECEMBER 19, 2014

TO FLY
Made possible by a generous gift from the Emil Buehler Perpetual Trust
Runways to Rockets: Our Place in Aerospace Exhibit will be renovated and renamed: To Fly. The highlight of the exhibit space will be a new state-of-the-art 7D capsule theater experience that will take students on an exhilarating flight through the sky. This new exhibit experience will use a 3D aviation film and multi-sensory experiences to create an unforgettable, educational, and exciting experience.

Go Green!
Sponsored by Republic Services
Ever wonder where your waste goes after the garbage truck takes it away? Harry the Heap, the recycling robot, knows and entertains students with his “RECYCLE” song while teaching them what “Going Green” really means. Another exhibit area engages students with a recycling sorting game. They will also discover ways to reduce household waste and find out about new sources of clean energy.

The Discovery Center
(ages 6 and under)
The Discovery Center, designed for children ages 6 and under, teaches children the fundamentals of counting, sorting, match, role play, cooperative play and teamwork. Whether they are crawling, climbing, or counting, children will be sure to benefit from this developmental, educational, and fun exhibit.

Museum Exhibits: NGSS/CCSS

|-----------------------|------------------------------------|-------------------------------|---------------------------------------------------------------|-------------------------------|-------------------------------------------------------------|-----------------------------|---------------------------------|-------------------------------|-----------------------------|-------------------------------|---------------------------------|---------------------------------|-------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------------------|
Traveling Exhibits

Black Holes: Space Warsps & Time Twists
September 27, 2014 - January 5, 2015
Experience one of the most mysterious and powerful objects in the universe: Black Holes. Developed by the Harvard-Smithsonian Center for Astrophysics, this exhibit features 13 interactive components that engage students while increasing their understanding of astronomy and physical science. Students will be able to explore gravity and the effects of unseen forces that help scientists weigh and collect evidence for black holes.
Enhance your exhibit experience with the IMAX film, Hubble 3D.

Brain: The World Inside Your Head
January 24 - March 3, 2015
Our life is dependent on our brain. Our brain defines who we are as humans and is responsible for everything our body does. This exhibit is comprised of 11 hands-on components that compel students to delve deep into their brains to better understand how the brain processes everything around us. Students will explore the secrets of dreams, the nature of pain, how drugs affect the brain, and the nature of mental illness.
Enhance your exhibit experience with an IMAX film.

Sesame Street Presents: The Body
May 23 - September 8, 2015
Join Elmo and the Sesame Street crew as they teach children from ages two to eight all about how to live a healthy lifestyle. This exhibit features three separate education zones related to the human body: Your Insides, Your Outside and Staying Healthy. Let Oscar’s Sneeze Machine teach your children about boogers, watch them boogie with Grover to learn how muscles work, and Rub-A-Dub Tub reminds children how to stay clean.
Enhance your exhibit experience with an IMAX film.

NGSS/CCSS

Black Holes: Space Warsps and Time Twists
Big Ideas:
4: Science and Society
5: Earth in Space and Time
8: Properties of Matter, Changes of Matter
10: Forms of Energy
11: Energy Transfer and Transformations
12: Motion of Objects
13: Forces and Changes in Motion

Brain: The World Inside Your Head
Big Ideas:
4: Science and Society
14: Organization and Development of Living Organisms
15: Diversity and Evolution of Living Organisms

Sesame Street Presents: The Body
Big Ideas:
4: Science and Society
14: Organization and Development of Living Organisms
Special Science Presentations

Keller Science Theater Presentations  Grades K - 8

30 Minute Presentations  100 Students Maximum

The Keller Science Theater can accommodate multiple classes and is the perfect spot for larger demonstrations. Located in Aviation Station, the Keller Science Theater is the perfect place for students to see live animal shows, chemistry and physical science demonstrations, and special science presentations.

Velocity Vroom

Is it a bird? A plane? A spaceship? Find out in "To Fly" - our re-imagined aviation exhibit! Take flight as you discover how animals fly, why planes soar, and what technology keeps space satellites aloft! The sky's truly the limit in this new interactive airborne adventure. Match with IMAX® films: Hubble 3D, Forces of Nature 2D, Space Station 3D

Matter of Fact

Back by popular demand! Join us as we cover states of matter and see the many ways we can physically and chemically change the matter around us. The objects on stage will be no match for our expanding gasses or a super cooled liquid nitrogen dip. Match with IMAX® films: Hubble 3D, Forces of Nature 2D, Space Station 3D

MaxFlight Full Motion Simulator  Grades 2 - 8

A state-of-the-art exhibit with 360-degree pitch-roll and spin technology. Max enrollment 25 students. Offered at 10 a.m., 11 a.m. and 12 p.m.

Roller Coaster Rollout

Enjoy a mini-demo on the science behind roller coasters. Each student will be strapped into our Max Flight simulator to experience a unique roller coaster track.

Flight Academy

Have your students learn about the history of flight during a new flight academy mini-demo. After learning how to fly, each student will get the chance to take the controls and fly the MaxFlight aircraft simulator.

Discovery Labs & Demos  Grades K - 2

Discovery Lab Programs  Grades K - 2

Water: The Most Interesting Molecule

This hands-on slippery science lab will cover the states of matter and some very unique properties of water that make it one of the most interesting molecules on earth.

Match with IMAX® films: Grand Canyon Adventure 3D: River at Risk, Forces of Nature 2D, The Ultimate Wave: Tahiti 3D

Why Do Boats Float?

In this hands-on lab, students will investigate the properties of magnets and explore how they are related to electricity.

Match with IMAX® film: Hubble 3D

Can You Sense This?

As a complement to "Brain: The World Inside Your Head" Exhibit, students will explore each of their five senses through hands-on activities. From eating, to smelling, to touching, students will be amazed at how our senses work together to make our lives easier.

Match with IMAX® film: Under the Sea 3D, Flight of the Butterflies 3D

Science Sampler

What is "Science" and what are the different fields of science? Exciting experiments in Biology, Ecology, Chemistry, Physics and Astronomy will be performed to stimulate young minds and get them interested in all areas of science.

Match with IMAX® films: The Ultimate Wave: Tahiti 3D, Flight of the Butterflies 3D, Wild Ocean 3D, Grand Canyon Adventure 3D: River at Risk, South Pacific 3D, Forces of Nature 2D, Born to Be Wild 3D, African Adventure 3D: Safari in the Okavango
**GRADES 3 - 5**

### Discovery Labs & Demos

**NGSS/CCSS**

*Big Ideas: Rockin' Reactions*

<table>
<thead>
<tr>
<th>Science and Society</th>
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<tbody>
<tr>
<td>Let the chemistry craze begin. Young scientists will learn how to use lab equipment properly and how to make correct measurements to complete four chemistry experiments. Match with IMAX® films: To the Arctic 3D</td>
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**Endangered Everglades**

<table>
<thead>
<tr>
<th>Earth Systems and Patterns</th>
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<tr>
<td>The Everglades is a fragile ecosystem and this lab will explore how native species have been affected by the influx of invasive species. Students will measure the salinity of different parts of the Everglades and play with a stream table to see how water flows through the largest wetland in the world. Match with IMAX® films: Galapagos 3D, Under The Sea 3D, The Last Reef 3D, South Pacific 3D</td>
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**Flower Power**

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<tr>
<th>Diversity and Evolution of Living Organisms</th>
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<tbody>
<tr>
<td>Explore the world of plants! Students will compare and contrast plant cells with animal cells, investigate tree rings, identify patterns of different leaves, see how water travels through plants, and learn the importance of plants in human survival. Match with IMAX® films: Flight of the Butterflies 3D</td>
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**Guts, Goo, and Poo**

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<thead>
<tr>
<th>Science and Society</th>
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<tbody>
<tr>
<td>Brains, blood, bladders and bowels! The systems of the body can do some pretty revolting things all in the name of keeping us safe and healthy. After the lab, have fun exploring the “Sesame Street Presents: The Body” exhibit.</td>
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### Live Demonstrations

**Big Ideas: The Water Cycle**

<table>
<thead>
<tr>
<th>Earth Systems and Patterns</th>
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<tbody>
<tr>
<td>Water is an extreme necessity on Earth and it is central to everything around us. This demonstration takes students through the great water cycle, how it influences weather patterns and its overall importance to our planet. Match with IMAX® films: Grand Canyon Adventure 3D: River at Risk, Forces of Nature 2D, Wild Ocean 3D, The Ultimate Wave: Tahiti 3D</td>
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**May the Force be with You**

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<tr>
<th>Forces of Energy</th>
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<tbody>
<tr>
<td>Every day and in every way, forces and energy affect our daily lives. This presentation covers the forces of gravity, friction, air pressure and centripetal force. Match with IMAX® films: Forces Of Nature 2D, Hubble 3D</td>
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**Sciencepalooza**

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<tr>
<th>Science and Society</th>
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<tr>
<td>Teachers, are you ready to get your students excited about science? They’ll get to spin the wheel when they join “Sammy the Scientist” in a fun and riveting game of science trivia. Match with IMAX® films: Flight of the Butterflies 3D, Grand Canyon Adventure 3D: River at Risk, Wild Ocean 3D, South Pacific 3D, Forces of Nature 2D, Born to Be Wild 3D, The Ultimate Wave: Tahiti 3D, African Adventure 3D: Safari in the Okavanga,</td>
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**GRADES 6 - 8**

### Discovery Labs & Demos

**NGSS/CCSS**

*Big Ideas: Roller Coaster Physics*

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<tr>
<th>Science and Society</th>
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<tr>
<td>What do you get when you combine friction, energy, gravity, and fun? A roller coaster, of course! Students will team up to build some crazy coasters and learn all about what makes them just so much fun. Match with IMAX® films: Grand Canyon Adventure 3D: River at Risk, The Ultimate Wave: Tahiti 3D, Forces of Nature 2D</td>
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**The World Up Close with Microscopes**

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<tr>
<th>Science and Society</th>
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<tr>
<td>Get up close with some fascinating features seen only under the microscopes. From fingerprints, to hair to animal cells, we will put it all under the lens. Match with IMAX® films: Under The Sea 3D</td>
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</table>

**Engineering Challenge**

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<tr>
<th>Forces of Energy</th>
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<tr>
<td>In this exciting engineering and physics lab, challenge your class to design and model bridges plus make zip line creations to balance and travel from one end of the room to the other. Students will learn it takes teamwork to create great science. Match with IMAX® films: Hubble 3D, Rocky Mountain Express 2D</td>
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**Sensational Squids**

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<tr>
<th>Science and Society</th>
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<tr>
<td>Backbone or no backbone? Dissect a squid to find out. Look inside of a squid through hands-on dissection. See how it moves and eats and why it is so important to the marine food chain. Visit our touch tank in Ecoscapes to see some of the squid’s invertebrate friends. Match with IMAX® films: Under The Sea 3D, Wild Ocean 3D, The Ultimate Wave: Tahiti 3D, South Pacific 3D</td>
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### Live Demonstrations

**Big Ideas: It’s Electric**

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<th>Science and Society</th>
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<tr>
<td>Watch how energy is transferred from one form to another and discover how chemical energy can be changed to electrical energy using a variety of unique mediums. Find out how electricity is generated, how humans conduct electricity, and how we can use it responsibly. Match with IMAX® films: Rocky Mountain Express 2D, Forces of Nature 2D, Hubble 3D</td>
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**Extreme Temperatures**

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<th>Science and Society</th>
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<tr>
<td>Join a Museum educator for an in-depth experience of how matter behaves in below zero and extremely hot temperatures. Students will be amazed by all of the “cool” physical changes that occur with dry ice and liquid nitrogen and how heat can affect the composition and appearance of different states of matter. Match with IMAX® films: To The Arctic 3D, Space Station 3D</td>
</tr>
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</table>
**IMAX® Film Library**

The **IMAX® Experience** BIGGER Than Your Imagination!

**AFRICAN ADVENTURE 3D: Safari in the Okavango**  
www.nwave.com/films/largeformatfilms

**ARABIA 3D**  
www.arabiafilm.com

**BORN TO BE WILD 3D**  
www.imax.com/born2bewild/

**FLIGHT OF THE BUTTERFLIES 3D**  
www.flightofthebutterflies.com

**FORCES OF NATURE (2D)**  
www.nationalgeographic.com/forcesofnature/

**GALAPAGOS 3D**  
www.imax.com/galapagos

**GRAND CANYON ADVENTURE 3D: River At Risk**  
www.grandcanyonadventurefilm.com

**HUMBACK WHALES 3D**  
http://tinyurl.com/t/nv08

**MADAGASCAR 3D: Island of the Lemurs**  
http://islandoflemurs.imax.com

**HUBBLE 3D**  
http://hubble.imax.com/

**JOURNEY TO THE SOUTH PACIFIC 3D**  
http://journeytothesouthpacific.imax.com

**MAGNIFICENT DESOLATION: Walking On The Moon 3D**  
http://magnificentdesolation.imax.com

**ROCKY MOUNTAIN EXPRESS (2D)**  
www.rockymountainexpressfilm.com/

**SEA MONSTERS: A Prehistoric Adventure 3D**  
www.nationalgeographic.com/seamonsters/

**SPACE STATION 3D**  
http://spacestation.imax.com

**TO THE ARCTIC 3D**  
http://tothearctic.imax.com/

**THE ULTIMATE WAVE: Tahiti 3D**  
www.ultimatewavetahiti.com

**T-REX: BACK TO THE CRETAUCEOUS 3D**  
http://trex.imax.com/

**UNDER THE SEA 3D**  
http://underthesea.imax.com/

**WILD OCEAN 3D**  
www.wildoceanfilm.com

**WILD SAFARI 3D: A South African Adventure**  
www.nwave.com/films/largeformatfilms

Film selection subject to change without notice.

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**Teacher’s Note**

✓ You can schedule any film in the IMAX® Film Library when you are booking a group of 90 or more.

**Teacher’s Note**

✓ Teacher Resource Guides are available for most IMAX® films. Request a copy when you make your reservation.
OUTREACH – Museum on Wheels

Make Science Exciting!
Let us bring an educational outreach program to your school. Sign up for your adventure today!

Assembly Outreach
Our assembly programs are 45 minutes of exciting education. All you need to provide is a room or auditorium large enough to accommodate up to 120 people. We’ll bring the rest.

Classroom Outreach
We bring hands-on activities into your classroom. Sessions last 45 minutes and can accommodate up to 30 students per session.

PLEASE NOTE: Due to set up and break down time it is preferred that one area is designated for Museum classroom presentations and to schedule students to attend the presentations throughout the day.

Cold Blooded Critters
Assembly or classroom. Adapted to grade level.
Meeting our reptiles will encourage your students to learn about these fascinating animals and their place in our ecosystems.

Insects in Action
Assembly or classroom. Adapted to grade level.
Let us bug your classroom with live residents to show your students the wonderful world of arthropods.

Crazy Chemistry!
Assembly or classroom. Adapted to grade level.
Amaze your students as energy and matter come to life in this exciting chemistry demonstration.

EcoTwister
Classroom only. Adapted to grade level.
Students take part in our EcoSurvival game to understand how living things are interconnected with their environment. They will meet a Museum animal ambassador who is an expert on survival.

Electricity Experiences
Classroom only. Adapted to grade level.
Investigate how circuits and electricity work through snap circuits. Students will connect circuits to make a flashlight turn on, doorbells ring, and propellers turn.

Translating Science
Classroom only. Grades 2-8.
Students become science sleuths utilizing their own brainpower to solve the puzzle of the mystery box! Find out how the scientific method is used to solve real world problems. Students will also learn how to create a hypothesis, collect data, and conduct scientific inquiries.

Catapult Me
Classroom only. Grades 4-8.
Jump back in time to see engineering at its finest. Students will build catapults out of household items and explore the different varieties of energy.

Oceans of Coral
Classroom only. Grades 4-8.
Since South Florida’s coasts are home to coral reefs, examining their importance to global oceanic health could not be more pertinent! Starting with coral’s biology and ecology, and the exploration of world-wide conservation efforts, students will become a part of its ongoing story in this interactive roster of activities.

For more information about outreach programs, please call 954.713.0930.
See page 21 for rates.
**New Discoveries: Inspiring Youth Through STEM**

**Internships**

**Program Objectives**
- Provide professional mentoring and guidance for participating students.
- Student teams will collaborate to produce a science show or community awareness project that will illuminate a basic science principle or issue.
- Each team will present their show/project to visitors in the Museum of Discovery and Science Keller Science Theater.

**Participants**
- High school students (ages 14-16)

**Program Dates and Times**
- Program runs from October 2014 - April 2015
- Meeting a minimum of once a week

**Program Location**
- Museum of Discovery and Science

**Personal Objectives**
- Increase STEM knowledge
- Develop self confidence
- Build communication and leadership skills

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**Evening Outreach**

**Bringing parents, teachers and students together is easy with Family Science Night!**

This program offers 15 hands-on experiments with demonstration stations that engage teachers, families and students though scientific inquiry. Each station comes with all the materials and includes special training instructions for an adult volunteer. A trained Museum educator will also be on hand to answer questions and ensure a GREAT experience.

Select one of these engaging subject areas: (These cannot be combined)
- Engineering and Physics Fun
- Bridges, pressure, sound, magnets and states of matter
- Everything on Earth
- Tornadoes, quicksand, ocean currents, hydrometers and water cycle
- Wonders of Life
- Superworm life cycle, scabs, boogers, dendrochronology, and microscopes

**Specifics**
- Elementary and middle schools
- Program lasts 90 minutes
- Maximum of 300 participants
- Requires 15 adult volunteers from designated school to run the event (Schedule can be adapted)

**Times:**
- (Schedule can be adapted)
  - 5:30 p.m. Museum presenter arrives
  - 6:00 p.m. School’s volunteers arrive
  - 6:30 - 8:00 p.m.

**Student/Family Experience**
- Large room (catereteria) • 15 tables
- 15 adult volunteers

**Program Fee:** $300 per night

**To book your Family Science Outreach**
- call 954.713.0930

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**TryScience.org** has put together a wealth of resources to help you integrate TryScience and science center resources into your classroom activities, and to help connect with parents and students.

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**TryScience Around the World**

**TryScience.org** has put together a wealth of resources to help you integrate TryScience and science center resources into your classroom activities, and to help connect with parents and students.

**Visit often and explore the teacher resources!**

**TryScience is brought to you through a partnership between IBM Corporation, the New York Hall of Science (NYHO S), the Association of Science-Technology Centers (ASTC), and science centers worldwide.**

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**STEM Center for Education and Career Development**

**Two-year Internship**

**Program Orientation**

**Saturday**
- 6:00 p.m. School’s volunteers arrive
- 5:30 p.m. Museum presenter arrives
- Evening Outreach
- 6:30 - 8:00 p.m.

**Eligibility Requirements**

1. Enter your Junior year of high school in August 2014
2. Receive the approval of your high school Guidance Counselor and Science Teacher
3. Complete an on-line profile survey
4. Have a PSAT combined score of 88 in Reading and Math
5. Have and maintain a 3.0 unweighted cumulative high school G.P.A.
6. Before March 1, 2015, take the ACT, SAT, Accuplacer or P.E.R.T. and achieve all of the minimum scores on any one test (listed below.) Tests may not be mixed and matched.

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**Two-year Internship**

**Museum of Discovery and Science and the United Way of Broward County present**

**APP•titude**

**Advancing Youth Development through an Immersion Experience in STEM Education**

**Two-year Internship**

for Broward County High School Students

- Gain Volunteer Service Hours
- Learn Coding
- Develop Apps for Android Devices
- Stipends for Completion of Program
- Explore Engineering and Computer Science Careers

Broward County students entering their Junior year in August 2014 are invited to apply for a two-year internship that will provide an opportunity to earn volunteer service hours, college credit, and a stipend while advancing their knowledge in STEM education.

The program begins in the Fall of 2014 and runs through May 2016 at the Museum of Discovery and Science. Students will meet at the Museum a minimum of two times per month and also participate in Florida Atlantic University College of Engineering and Computer Science’s three-week, dual-enrollment course in June 2015. Upon successful completion of this college level course, students will receive three semester hours of college credit.

During the second year, interns will mentor the incoming students and continue working on APP development. Seniors who complete the two-year internship are eligible for a stipend.

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**Register for the 9.6.2014 orientation by emailing your contact information to:**
- stem@mods.net
Planning Your Visit

Creating Your Field Trip Program

- The Museum provides you with the flexibility to create a field trip program that best suits your curriculum, budget, and available time.
- Use the Field Trip Checklist on Page 23 to help you work through the details before calling 954.713.0930 to book your trip.
- Reservation agents are ready to assist you in planning your visit from 8:00 a.m. to 4:30 p.m., Monday through Friday.
- Visit www.mods.org for updated information on films, exhibits, and programs.

Lunch Options

- Subs, pizza, soft drinks, juices and snacks are available at the Subway Café. You can pre-order lunch through Subway at 954.779.1102. Please look for the order form that will be included in your confirmation package. Orders must be placed at least seven (7) days prior to your scheduled visit. Call Subway to confirm your order.
- The Explore Store and Snack Bar also offer snacks, ice cream, soda and water. Advance ordering is available. Call 954.712.1167.

Chaperone Guidelines

- One chaperone is REQUIRED for every ten students in grades 1-12 and one for every five students in Pre-K and Kindergarten.
- Each adult must be assigned to chaperone a specific group of children. Adult chaperones MUST stay with their group at all times to ensure the itinerary is followed. Inadequately supervised groups or groups causing disturbances will be asked to leave without refund.
- A chaperone is any teacher or adult accompanying the group.
- All RESERVED chaperones that fall within the required ratio are not charged for the exhibit portion. Any additional adults over the 1 to 10 ratio will be charged the student rate of $9.00 for exhibit entry at the door.
- All RESERVED chaperones are charged $5.00 for the IMAX® portion of any trip. Additional adults over the 1 to 10 ratio will be charged the student rate of $7.00 at the door.
- Schools are responsible for collecting money from chaperones to pay in one transaction. Individual payments not accepted.
- Membership benefits are not applicable on group reservations.

Broward County Public Schools

Elementary and Middle Schools may be eligible for Supplemental Arts and Sciences Program Funds that can be used for Field Trips, Outreach Programs and transportation. Check with your bookkeeper for details.

Making Your Reservation

- Review programs, films, prices, policies and procedures in this guide.
- Select at least three possible field trip dates.
- Verify your dates with school administration and transportation.
- Determine the number of students and chaperones.
- Call the Museum at 954.713.0930 or email sales@mods.net to check date availability and make your reservation.

Reservation Confirmation

- Look for your confirmation/invoice letter from the Museum.
- Fax/email signed confirmation/invoice letter. Fax # 954.467.0456 email: sales@mods.net
- Tip: Call 954.713.0930 if you do not receive your confirmation/invoice letter within three days of making your reservation.

Deposit

- Pay 20% non-refundable deposit within 14 days of making reservation with check, credit card or money order. Purchase orders are not accepted.
- Tip: Your deposit is non-refundable so plan your trip carefully. If you fail to pay your deposit by the deadline, your reservation is subject to cancellation.

Final Headcount

- 14 days before visit, call Museum at 954.713.0930 to give the final headcount.
- 10 days before visit, look for a final invoice from the Museum showing final headcount.
- Tip: Make sure you are submitting an accurate final headcount as you are guaranteeing payment for that number.

Final Payment

- Mail check for final payment so Museum receives it 7 days prior to visit. Note confirmation number on check.
- If paying by credit card, call Museum to provide credit card account information 7 days prior to visit.
- Tip: If final payment is not made by the deadline, your reservation is subject to cancellation and you will forfeit your deposit.

Field Trip Checklist

Subway Cafe and Explore Store

- 7 days before visit, fax lunch order to Subway. Fax # 954.779.1102. Call to confirm order was received.
- 7 days before visit, fax gift bag order to Explore Store. Fax #954.523.5265. Call to confirm order was received.

Day of Visit: Exhibit Floor opens at 10 a.m.

- Arrive at least 20 minutes prior to IMAX® show time to allow enough time to load students into theater. If your transportation is running late, please call 954.713.0930.
- Check in at box office. Notify cashier if your final headcount has increased and pay any additional admission fees.

Payment, Cancellation & Refund Policies

Deposit: 20% non-refundable deposit is due within 14 days of making your reservation.
Final Payment: Final payment is due 7 days prior to visit.
Payment Methods: We accept checks, money orders or credit cards (Visa, MasterCard, American Express or Discover.) Purchase orders are not accepted. Make your check out to Museum of Discovery and Science.
Payment Address: Mail check to Attn: Reservations Museum of Discovery and Science 401 SW 2nd St., Fort Lauderdale, FL 33312
Rescheduling Fee: If you reschedule your visit date, you will be charged a $25 rescheduling fee. Please note that rescheduling cannot be guaranteed due to limited availability.
Cancellation and Refunds:
- If you cancel your reservation within 14 days of booking your visit, there will be no penalty.
- If you cancel your reservation 14 days or more after booking your visit, you will forfeit your 20% non-refundable deposit.
- If you cancel your reservation 7 days or more before your visit, you will be issued a refund less your 20% non-refundable deposit.
- If you cancel less than 7 days before your scheduled visit, no refund will be issued.
- There will be no refunds if your group is a no-show the day of your scheduled visit.
The Day of Your Visit

IMPORTANT: Arrive at your scheduled time to ensure a wonderful experience.

ITINERARIES

<table>
<thead>
<tr>
<th>Option 1</th>
<th>IMAX</th>
<th>10:00 am – 11:00 am</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lunch</td>
<td>11:00 am – 11:30 am</td>
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<tr>
<td></td>
<td>Exhibits</td>
<td>11:30 am – 1:30 pm</td>
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<tr>
<td></td>
<td>Lab or Demo</td>
<td>11:15 am – 12:00 pm – 12:45 pm</td>
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<tr>
<th>Option 2</th>
<th>Exhibits</th>
<th>10:00 am – 12:00 pm</th>
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<tbody>
<tr>
<td></td>
<td>Lunch</td>
<td>12:00 pm – 12:45 pm</td>
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<tr>
<td></td>
<td>IMAX</td>
<td>12:45 pm – 1:30 pm</td>
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<tr>
<td></td>
<td>Lab or Demo</td>
<td>10:00 am – 10:45 am – 11:30 pm</td>
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<tr>
<th>Option 3</th>
<th>(Early Departure)</th>
<th>Exhibits</th>
<th>10:00 am – 11:30 am</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Lunch or Depart</td>
<td>12:15 pm – 1:00 pm</td>
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<tr>
<td></td>
<td>Lab or Demo</td>
<td>10:00 am – 10:45 am – 12:30 pm</td>
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<tr>
<th>Pre-K and K</th>
<th>2nd Floor Exhibits</th>
<th>9:30 am – 10:15 am</th>
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</thead>
<tbody>
<tr>
<td>The Discovery Center</td>
<td>11:00 am – 11:45 pm</td>
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<tr>
<td>Lunch or Depart</td>
<td>11:45 pm – 12:30 pm</td>
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</tr>
<tr>
<td>Lab or Demo</td>
<td>11:15 am – 12:00 pm</td>
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</tbody>
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Where to go:
All buses should arrive at the bus loop located on SW 5th Avenue for student drop off. Limited bus parking is assigned on a first-come, first-served basis. Drivers can enter the exhibit area at no charge. Cars and vans are not permitted to park in the bus loop at any time.

Greeting: A Museum greeter will meet your group at the bus. All students will remain in the atrium until the group leader has completed check-in.

Arrival Time: All groups are required to be at the Museum 20 minutes prior to scheduled film. If your group is going to be late, please call immediately. 954.713.0930.

Late Arrivals: Late arrivals will not be admitted into the IMAX® Theater and refunds will not be issued.

Check-In:
- Present your Reservation Number and a copy of your signed confirmation letter at Group Check-In.
- Give an exact count of students and chaperones in your group.
- Distribute itinerary to all your chaperones.

Items to leave on the bus:
- Backpacks
- Lunch containers

Your Explore Store Visit
You can pre-order “Science to Go” Gift Bags from the Explore Store and they will be waiting for you the day of your visit. After you book your Museum visit, special gift bag order forms with instructions will be included in your reservations packet. Students are also welcome to shop in the Explore Store in small groups accompanied by at least one chaperone for every 10 students.

WHERE TO GO:
Gift Bag #1 • $5.00
- Mini Snake
- Rubber Roach
- Mood Pencil
- Pencil Sharpener
- Rubber Lizard
- Very Acrylic Dolphin
- Gravity Clock Postcard
- Gem Stone Bottle
- Mood Stress Ball with Logo

Gift Bag #2 • $10.00
- Mini Snake
- Rubber Roach
- Mood Pencil
- Pencil Sharpener
- Rubber Lizard
- Small Acrylic Dolphin
- Gravity Clock Postcard
- Gem Stone Bottle
- Mood Stress Ball with Logo
- Clip on flashlight with Logo

Gift Bag #3 • $12.00
- Mini Snake
- Rubber Roach
- Mood Pencil
- Pencil Sharpener
- Rubber Lizard
- Small Acrylic Dolphin
- Gravity Clock Postcard
- Gem Stone Bottle
- Mood Stress Ball with Logo
- Clip on flashlight with Logo

Where to go:
- The Discovery Center
- 2nd Floor Exhibits
- Lab or Demo

IN EVENT OF A REMAINING BALANCE, YOU MAY PAY VIA CHECK, MONEY ORDER OR A CREDIT CARD, VISA, MASTERCARD, AMERICAN EXPRESS AND DISCOVER. (PURCHASE ORDERS ARE NOT ACCEPTED.)

- No refunds will be given for no-shows.
- School group is responsible for paying for the number of attendees booked as of seven (7) days prior to visit.

Lunch:
- Lunch must be stored on the bus in coolers provided by your group. The Museum does not have storage facilities.
- Limited lunch seating is available in the Grand Atrium on a first-come, first-serve basis. You also have the option to eat at Esplanade Park across the street from the Museum.
- Food and drink are not permitted in the AutoNation® IMAX® Theater or the exhibits floors.

Additional Chaperones:
- Pay Student Rate

Museum on Wheels Outreach

- Assembly: $250.00 first program each day • $150.00 each additional (up to four per day)
- Classroom: $180.00 first program each day • $100.00 each additional (up to four per day)

SPECIAL: Outreaches scheduled to occur before March 9, 2015, will receive a $25.00 discount per booking. Discount must be requested at time of booking.

Address:
401 SW Second Street
Fort Lauderdale, FL 33312
www.mods.org

Reservations:
954.713.0930 or sales@mods.net

Museum Hours:
Monday through Saturday
10:00 a.m. - 5:00 p.m.
Sunday
Noon - 6:00 p.m.