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THE MUSEUM OF DISCOVERY AND SCIENCE IS LICENSED AND INSURED.

MODS

EXPERIENCE PLANNER 2021-2022 RESOURCE GUIDE



MUSEUM OF DISCOVERY AND SCIENCE

Field Trips | Homeschool Options | Science Nights | Overnights | Outreaches | STEMobile



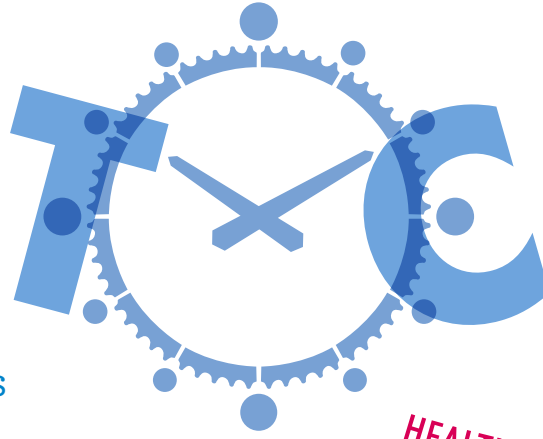


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HEALTHY SCIENTISTS MAKE
HEALTHY CHOICES!



**THANK YOU
FOR YOUR COOPERATION**

For everyone's safety, masks are mandatory for all guests over the age of 2, including those who have received a COVID-19 vaccine except when eating and drinking in the auditorium. Guests also will find employees in masks, frequent and enhanced cleanings, contactless transactions and plenty of hand sanitizer to go around.

For the latest guidelines, please visit mods.org/healthyscientists.

QUICK RESOURCES



EXPLORE

Learn about everything MODS has to offer you and your learners: Peruse our menu of outreaches and STEMobile programs where we come to you! See page 9 for more details!



PLAN

If you need assistance with planning your experience you can review the checklist, FAQ and planning worksheet/link. See pages 6-7.



ACCOMMODATIONS

Accommodations can be made for any special needs to foster a fun and user-friendly experience.



RESERVE ONLINE

Once you're ready to book your Museum experience, reserve online at mods.org/reservations.

   @modsfll

We are happy to answer any questions at 954.713.0930 or booking@mods.org.

THE MISSION OF
THE MUSEUM
OF DISCOVERY
AND SCIENCE
is connecting
people to
inspiring science.



PRESIDENT'S MESSAGE

WELCOME TO THE 2021-2022 SCHOOL YEAR!

Imagine the new discoveries ahead. This year, we get a fresh start; a new opportunity to engage and connect learners to reignite their spark. As a hands-on center for experiential learning and professional development, the Museum is your trusted partner in providing stimulating STEM experiences and exciting exploration.

A MODS encounter presents immersive exhibits, enriching learning experiences and inquiry-based educational programs that augment classroom curriculum. We utilize the Museum's STEM learning pillars of environmental sustainability, health and wellness, physical science and early childhood education to launch discovery. Our team of professional educators designs the MODS experience around Florida's Academic Standards. A visit to the Museum is curated to be an interdisciplinary experience for learners of all ages, abilities, cultures, economic status and reinforces 21st century skills.

Whether you're planning a field trip, organizing an outreach program (MODS STEMobile comes to you!), visiting us using educator benefits or taking advantage of our professional development courses, we're here to support you in educating learners to succeed in tomorrow's world.

Did you know you can use Supplemental Arts and Sciences Fund or ESSER funds at MODS? See page 5 for information. These funds can be used for onsite field trips at the Museum, offsite at a location of your choice, virtual summer and school field trips, supplemental afterschool programming, STEMobile booking, family science events and more.

We encourage you and your colleagues to come see the Museum in action! Join us for Educators' Night Out events. See page 4 for more details!

TO INSPIRING SCIENCE
AND INFINITE DISCOVERY,

JOSEPH P. COX
PRESIDENT & CEO



TTT CONNECTING WITH MODS

SAVE THE DATES

PUBLIC, PRIVATE/INDEPENDENT AND CHARTER SCHOOLS EDUCATORS' NIGHT OUT **OCTOBER 21, 2021 • 4:30 P.M.**

Educators, administrators, coordinators and all school personnel across south Florida are invited to attend a **FREE evening at the Museum**. Learn more about the Museum's field trip possibilities including exciting labs, demos, Makerspace and shows. Also, explore the STEMobile and the outreaches that can come to your school. Discover all the possibilities.

EARLY CHILDHOOD ADMINISTRATORS, DIRECTORS, COORDINATORS AND EDUCATORS' NIGHT OUT **FEBRUARY 3, 2022 • 5:30 P.M.**

Preschool educators, owners, directors, coordinators and classroom assistants of Early Childhood Centers are invited for a **FREE evening at the Museum**. Learn about our Early Childhood offerings and how the Museum can partner with you. Meet our early childhood team, explore the STEMobile, take a tour of our Sprouting STEM Early Childhood Learning Lab, powered by PNC Grow Up Great, as well as interact with our immersive exhibits and animal ambassadors.

CAMP DIRECTORS AND STAFF NIGHT OUT **MAY 12, 2022 • 4:30 P.M.**

Camp directors, staff and field trip coordinators are invited for a **FREE evening at the Museum**. Learn about our SCIENTASTIC camp programs and field trips at the Museum to keep your campers cool and engaged or let us come to you in our STEMobile with engaging outreaches. Enjoy your evening interacting with our immersive exhibits and animal ambassadors.

RESERVE YOUR SPOT TODAY!

Book online at mods.org/educatorsnightout.

EDUCATOR BENEFITS

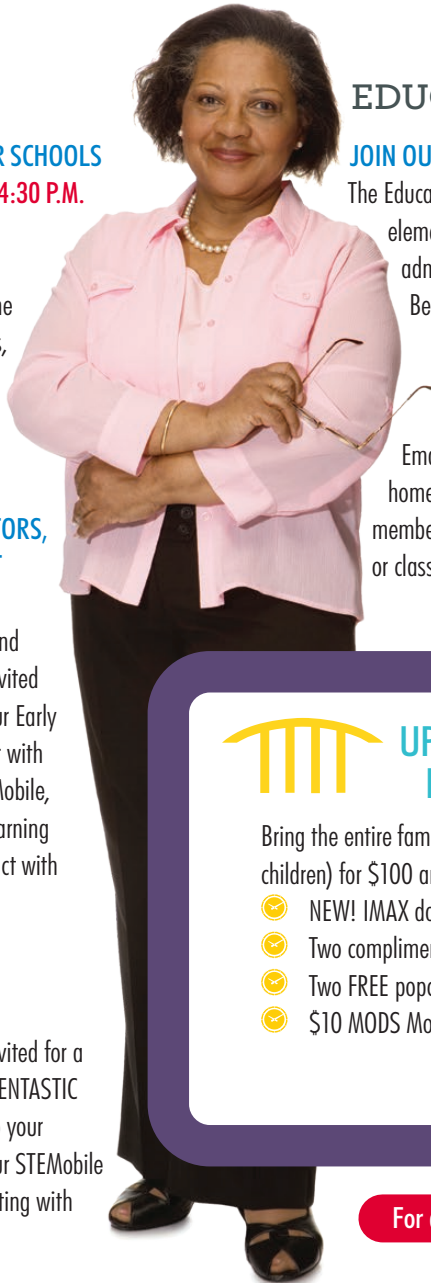
JOIN OUR EDUCATOR MEMBERSHIP PROGRAM!

The Educator Membership Program is available to all preschool, elementary, middle, high school and homeschool teachers and administrators in public and private schools in Broward, Palm Beach and Miami-Dade counties.

Cost: \$10 annually per teacher

Proof of current school year employment is required.

Email a copy of your current school I.D. or paycheck stub or your homeschool authorization letter from the district to members@mods.org. School websites, health insurance cards, or class syllabus cannot be accepted forms of proof.



UPGRADE TO A TEACHER FAMILY MEMBERSHIP

Bring the entire family all year long (up to two adults and four children) for \$100 and receive these membership benefits:

- NEW! IMAX documentary admission each visit
- Two complimentary exhibit guest passes
- Two FREE popcorn coupons
- \$10 MODS Money



**SAVE
\$40**

For questions, please email members@mods.org.



FUNDING YOUR EXPERIENCE

UTILIZE SUPPLEMENTAL ARTS + SCIENCES PROGRAM FUNDING FOR MODS PROGRAMS

Did you know that elementary, middle and alternative/exceptional centers and schools can receive funds for student field trips or outreach programs with arts and science organizations including MODS?

Supplemental Arts and Sciences Program Funding can be used for MODS field trips and/or transportation to MODS. Also included is “MODS Comes to You” in-school programs offered by the Museum, such as STEMobile, outreach and assemblies.

Details are outlined below. Please contact your administrator for additional information.

- ☑ Funds must be used to directly benefit students through admission and program fees and/or transportation.
- ☑ Schools will receive categorical allocations from the School Board of Broward County, as well as procedures from the Internal Accounts Instructor to deposit the funds in the Internal Accounts.
- ☑ Any unused funds will be returned to the District at the end of the school year.

Ask your school’s principal or bookkeeper/field trip coordinator to access the Broward County Public Schools Supplemental Arts and Sciences Program Funding.

STEM EXPERIENCE SERIES: EXCLUSIVE FOR CITY OF FORT LAUDERDALE SCHOOLS

Thanks to generous support from the City of Fort Lauderdale, MODS is offering the free STEM Experience Series to every 2nd Grade and 4th grade class in Elementary Schools in the City of Fort Lauderdale.

The STEM Experience Series offers two Museum field trips, two MODS STEMobile visits and Family Maker Kits for every student. Professional development workshops are available for 2nd and 4th grade educators. Programs must be booked from October 1, 2021 through June 9, 2022.

Contact booking@mods.org to reserve your spot.

UTILIZE ELEMENTARY AND SECONDARY SCHOOL EMERGENCY RELIEF (ESSER) FUNDS WITH MODS PROGRAMMING!

MODS offers standards-aligned, evidence-based STEM enrichment programming perfectly positioned to equip learners with the fundamental academic skills needed to thrive. From a social-emotional standpoint, students will re-engage with their peers, reignite their learning and escape into whimsical worlds where their creativity and imagination can run free.

ESSER FUNDS CAN BE USED FOR:

- ☑ Onsite field trips at the Museum
- ☑ Offsite at a location of your choice
- ☑ Virtual summer and school field trips
- ☑ Supplemental afterschool programming
- ☑ STEMobile booking
- ☑ Family science events

Contact your school administrator for additional information.

FIELD TRIP FUNDS AND GRANTS

Field trip funds and grants may be available to schools through these partner organizations:


- ☑ Broward Education Foundation (browardedfoundation.org)
- ☑ Education Foundation of Palm Beach County (educationfoundationpbc.org)
- ☑ The Education Fund for Excellence in Miami-Dade Public Schools (educationfund.org)
- ☑ Elementary and Secondary School Emergency Relief (mods.org/esser)
- ☑ Target Field Trip Grants (cybergrants.com/target/fieldtrip)
- ☑ Grants for Teachers (Teach.com)
- ☑ Broward County Supplemental Arts and Sciences Program (SASP) (browardschools.com)

ON-SITE EXPERIENCE OPTIONS



There are six ways to visit MODS with your field trip or small group. For each experience, one adult chaperone is required for every 5 or 10 children (depending on age group). Select from the options above. A lunchtime will be assigned based on the itinerary selected. There is a minimum of 10 learners.

LEGEND:

-  **Museum Admission**
-  **IMAX* Film**
-  **Lab or Demo**
-  **Makerspace**

OPTIONS:

- 1 Includes general Museum admission, one IMAX film and one Lab **OR** Demo **AND** 30-minute Makerspace Activity.
- 2 Includes general Museum admission, one IMAX film and one Show, Lab **OR** Demo.
- 3 Includes general Museum admission and one IMAX film.
- 4 Includes general Museum admission and one Show, Lab **OR** Demo.
- 5 Includes general Museum admission only.
- 6 Includes IMAX film only.

* Please see page 22-25 for the onsite IMAX film selection. (Click the images in the digital version to watch the previews.)

RATIOS AND ADULT CHAPERONE PRICING

The adult chaperone/student ratio requirements are:

- 1:5 for grades PreK – 1
- 1:10 for grades 2 – 12

SATURDAY FIELD TRIPS

for homeschooled learners, small groups and scouts are subject to availability and require three weeks advanced notice.

EXPERIENCE CHECKLIST

BOOK THREE EXPERIENCES in a year and receive a special discount of \$50!

USE THIS GUIDE TO PLAN YOUR MODS EXPERIENCE

1. PLANNING TIPS

- ☉ Choose three potential dates that work for you.
- ☉ Make a list of experiences you are interested in. (Please note capacities and grade levels.)
- ☉ Obtain a complete head count of adults and students.
- ☉ Know your organization's contact information, including school's phone number, address and district.

2. SETTING UP YOUR EXPERIENCE

- ☉ Complete the online form at mods.org/reservations or call our guest experience department at 954.713.0930 Monday through Friday from 10 a.m.— 4 p.m. A minimum of three weeks' advance notice is required. Please be prepared to share the information of the lead contact who will be present on the day of the experience.
- ☉ Reservations should be made for the maximum number of youths and adults expected. For onsite at MODS experiences, the chaperone ratio for preschool through grade one is 1:5. Grades two and higher is 1:10.
- ☉ Please let the Museum guest experience team know if special accommodations are needed.

3. REVIEWING YOUR CONFIRMATION

- ☉ Watch for your confirmation email. Call our guest experience department at 954.713.0930 if you do not receive it.
- ☉ Carefully review your confirmation packet and call us immediately with any questions or revisions.

4. LUNCH (FOR ONSITE AT MODS EXPERIENCES ONLY)

- ☉ All groups will receive a 20-minute time slot in a designated lunch area to keep programs on schedule. Lunch options:
 - ☉ **PACK LUNCHES** in boxes or coolers labeled with the school's name. Limit coolers to 36x17x17 inches with wheels. No garbage bags will be allowed. Lead educator/chaperones are responsible for transporting lunches from the bus to the storage cart(s), which will be kept in an air-conditioned space until the group's designated lunch time. Note: Refrigerators and microwaves are not available.
 - ☉ **PRE-ORDER BOX LUNCHES** are available for groups from Elements Café. For more details regarding lunch options, or to place your order, please call our guest experience department at 954.713.0930 or complete the online form at mods.org/reservations (with three-week advance notice.)

5. EXPLORE STORE GIFT BAGS

- ☉ Let the learning continue by taking home a pre-packaged gift bag as a memory of your group's MODS experience! Items vary.
- ☉ Gift Bag - \$10 per child

6. PAYMENTS

- ☉ Accepted forms of payment include cash, credit card (Visa, MasterCard, American Express and Discover), check or PO number. Full payment is required in advance of arrival at the Museum.
- ☉ Refunds cannot be issued when cancellations are made less than seven days before scheduled experience (this includes all components of your booked experience: IMAX films, shows, labs, demos, STEMobile, Makerspace and more, and boxed lunch orders as well).
- ☉ Final headcounts must be provided 14 days in advance. There are no refunds for headcount changes on the day of arrival.

7. THE DAY OF YOUR EXPERIENCE

- ☉ Confirm final totals of students and adults attending/participating.
- ☉ **Onsite at MODS experiences:**
 - ☉ Please arrive 15-30 minutes early for check-in with your completed paperwork (copy of your reservation number and signed confirmation).
 - ☉ Groups arriving by bus will access the Museum through the bus loop. Museum team members will meet the group at the bus with your daily schedule.
 - ☉ Lead teacher/chaperone will check in at the box office to receive instructions and complete payment. Your group will be seated at available tables in the courtyard until the check-in process is completed.
 - ☉ The bus loop is an active loading and unloading area. Buses must drop off passengers and remain offsite until the group is ready to be picked up. There is no parking or standing allowed.
- ☉ **MODS Comes to You experiences:**
 - ☉ MODS educator(s) will arrive 15 to 30 minutes before outreach to set-up.
 - ☉ Labs are conducted in a classroom setting, while assemblies are held in a large gathering hall like a gym or cafeteria.
 - ☉ Class rotations can be developed.

Book online at mods.org/reservations

ON-SITE SHOWS, LABS AND DEMOS

PREK- GRADE 12

ON-SITE SAMPLE ITINERARIES

Below are sample itineraries for groups.*
Our guest experience department will customize your itinerary based on your experience selection.**

EARLY CHILDHOOD

Lab/ Show/ Makerspace
10:00 a.m. - 10:30 a.m.
Exhibits – 10:35 a.m. - 11:35 a.m.
Lunch – 11:40 a.m. - 12:00 p.m.

ULTIMATE MODS MAKER

IMAX – 9:00 a.m. - 9:45 a.m.
Exhibits – 9:50 a.m. - 10:50 a.m.
Lab/Demo – 10:55 a.m. - 11:25 a.m.
Lunch – 11:30 a.m. - 11:50 a.m.
Makerspace – 11:55 a.m. - 12:25 p.m.

COMPLETE MUSEUM ADVENTURE

IMAX – 10:15 a.m. - 11:00 a.m.
Show/Lab/Demo/ Makerspace
11:05 a.m. - 11:35 a.m.
Lunch – 11:40 a.m. - 12:00 p.m.
Exhibits – 12:05 p.m. - 1:30 p.m.

ENHANCED MUSEUM AND EXPERIENCE

Exhibits – 10:00 a.m. - 11:30 a.m.
Lunch – 11:35 a.m. - 11:55 a.m.
Lab/Show – 12:00 p.m. - 12:30 p.m.

*A lunch time will be assigned based on the itinerary selected. May differ from above.

Get learners excited about STEM!
Choose from a variety of age-appropriate live shows, labs and demonstrations that can support your curriculum goals.



SHOWS 30-minutes 100 learners per show

Located in the To Fly exhibit hall on the second floor, the Keller Science Theater is the perfect place for learners to experience live animals, chemistry or a physical science show in a presentation format.



LABS 30-minutes 30 learners per session

A MODS lab is an interactive, highly hands-on experiment led by a MODS educator in one of our specially-equipped learning labs. There are a variety of options from which to select based on STEM objectives and grade level.



DEMONSTRATIONS 30-minutes 60 learners per session

A MODS educator will demonstrate STEM concepts through a series of exciting experiments and activities. There are specific demonstration themes to select based on your learners' grade level, including some in which learners participate through STEM challenges.



MAKERSPACE 30-minutes 25 learners per session

Ideas take flight in our MODS Makerspace, The Hangar! Located in our To Fly exhibit hall, our staff-guided maker programs allow learners to ask, imagine, plan, create, test and improve in this state-of-the-art studio.



HOMESCHOOL OPTIONS

Gather your homeschool network and come to MODS for an exciting field trip opportunity. Homeschool groups can access shows, labs, demos and Makerspace with only a minimum of eight (8) learners. Choose any of our activity options geared to your age range and interests. Add an IMAX documentary to round out the day.

**Please contact booking@mods.org or call 954.713.0930 to customize your experience.

OUTREACH EXPERIENCES AND STEMobile

PREK- GRADE 12

STEMobile MOBILE MAKERSPACE

Let us bring the MODS STEMobile to you! Our Mobile Makerspace delivers inquiry-based experiences to your school, organization or community center with unique and immersive STEM (Science, Technology, Engineering and Math) programming led by MODS educators. Programs can be customized for time, group size and age group.

30-minutes/ 30 learners max per session

\$350 for first session • \$300 for each additional session (up to four per day)



To Fly

Blast off with the science of flight! Learners will make wind chutes and launchers while discovering the science of flight and the related aviation careers from the ground to the sky!



Clever Coders

Your programmers can become Clever Coders! Learners will explore how puzzles and patterns are the building blocks of codes with a mix of on-and-off-screen making activities sure to engage and challenge young minds!



Weather the Storm

Get ready for your class to be blown away! Learners will explore weather-related challenges and phenomena (hurricanes, floods or tornadoes) that lead to a making activity focusing on designing a creative solution to weather the storm.



Robot Petting Zoo

Introducing the MODS squad of interactive robots! Learners will experience how robots are constructed and coded through hands-on activities with our collection of diverse interactive bots.



Everglades Engineer

Your learners will become animal ambassadors and experiment with a variety of eco-friendly materials to design and engineer shelters, feeders and other backyard structures that will help native wildlife to survive in our urban environment.



STEAM

Full STEAM ahead! Learners will experiment with STEAM (Science, Technology, Engineering, Art and Math) using 3D designs, fabrics, sewing machines and creating 2D art with the latest equipment. Expand your artistic side.



Solar Power

How can the power of the sun become usable electricity? Learners will delve into the variety of solar options, construct solar power and bask in the power of the sun.

OUTREACH PROGRAMS

This is science that really travels! Did you know that MODS can facilitate Museum programming and curricula on location in your classroom, organization or community center? Our STEM educators are specially trained to bring enriching assemblies, in-school field trips and classroom activities inside or outside at your location. Learners will make connections and gain new understanding all from the comfort of your space!

IN-SCHOOL ASSEMBLY

40-minute show/ 120 learners per show

\$275 for first program each day • \$175 each additional (up to four per day)

Gather classes for a large-scale presentation on chemistry, physics or live animals. See pages 10-19 for more details.

CLASSROOM SESSION

45-minutes/30 learners per session

\$200 for first session • \$120 each additional session (up to four per day)

A MODS educator will lead an interactive session for your class. Choose from a variety of subjects ranging from nature and science to environmental sustainability, health and wellness. See pages 10-19 for more details.

VIRTUAL EXPERIENCES AVAILABLE!
Please contact booking@mods.org.

Learn more about The Hangar Makerspace and the STEMobile at [youtube.com/discoveryandscience!](https://youtube.com/discoveryandscience)



Early Childhood PreK

ONSITE PROGRAM SELECTIONS



LABS

COLOR CONNECTION Learners will dive into the vibrant world of colors with light experiments including filters and prisms as well as mixing colors to see what new shades can be created.

FELDS* Domain: Creative Expression Through the Arts. Uses imagination and creativity to express self with intention using a variety of open-ended, process-oriented and diverse art materials.

MOTION + EMOTION Learners will tap into their feelings, act out common emotions and build an emotion bottle that really moves.

FELDS* Domain: Emotional Functioning. Expresses, identifies and responds to a range of emotions.

ROCK AND ROLL Aspiring geologists will magnify, test and observe the MODS rock collection and see how rocks change with experiments using the rock cycle.

FELDS* Domain: Physical Science. Demonstrates knowledge related to physical science.

MY MOON Space travelers will journey to the moon to experiment with craters, create moon paintings and discover the phases of the moon.

FELDS* Domain: Earth and Space Science. Demonstrates knowledge related to the dynamic properties of earth and sky.



SHOWS

ANIMAL AMBASSADORS Learners will meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

FELDS* Domain: Life Science. Demonstrates knowledge related to living things and their environments.

**For the welfare of our animals, the number and species of animals included depends on availability.

*Florida Early Learning and Developmental Standards



MAKERSPACE

MAKING MUSIC Learners will investigate sound waves while relating those concepts to musical instruments and construct two instruments from common objects for musical fun.

FELDS* Domain: Music. Discovers and engages in creative music experiences. Begins to engage in a variety of individual and group musical activities.

BIRD'S NEST Learners will step into the mind of the planet's feathered friends to design a safe and secure nest for eggs and bring creations to life with natural and found objects.

FELDS* Domain: Life Science. Demonstrates knowledge related to living things and their environments.



OUTREACH EXPERIENCES PreK



CLASSROOM

MODS SPEEDWAY Learners will rev their engines to race cars down ramps and inclines all while investigating the force of gravity.
FELDS* Domain: Engineering and Technology. Shows interest and understanding of how simple tools and machines assist with solving problems or creating objects and structures.

LET'S TALK DIRT Learners will discover how dirt is made in this hands-on lab and explore the world of decomposers and the importance of natural recycling.
FELDS* Domain: Life Science. Demonstrates knowledge related to living things and their environments.

WATER SAFETY SCIENCE Sink or Float? Learners will discover which objects are buoyant, explore the properties of water and create a life jacket for an action figure. This module also features how to be safe in and around the water.
FELDS* Domain: Physical Science. Demonstrates knowledge related to physical science.

GET GROWING What can be grown from kitchen scraps? Learners will discover a new way to recycle and learn how to regrow plants to protect the Earth.
FELDS* Domain: Environment. Demonstrates awareness of relationships to people, objects and living/non-living things in their environment.

Learn about our STEMobile Programs on page 9.



ASSEMBLY

ANIMAL AMBASSADORS Learners will gather together to meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

FELDS* Domain: Life Science. Demonstrates knowledge related to living things and their environments.

SCIENCE CIRCUS Learners will step into the ring to experience a science extravaganza in physics and chemistry and observe scientific fun in this entertaining spectacle.

FELDS* Domain: Scientific Inquiry through Exploration and Discovery. Demonstrates interest and understanding of how simple tools and machines assist with solving problems or creating objects and structures.



Register for the
Early Childhood Educators' Night
Out on February 10 by visiting
mods.org/earlychildhoodnightout.

Grades K-2

ONSITE PROGRAM SELECTIONS




SHOWS


ANIMAL AMBASSADORS Learners will meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

 IMAX Film Match: *Back From The Brink*
Standards: SC.K.L.14.3, SC.1.L.14.1, SC.1.L.17.1 SC.2.L.17.1

KaBOOM! Learners will hear about the different states of matter and the many ways we can chemically change the matter around us. Learners also will witness fire, sparks and large explosions as they explore the science behind these chemical reactions.

 IMAX Film Match: *Hubble 3D*
Standards: SC.K.P.9.1, SC.1.N.1.2, SC.2.P.8.2, SC.2.P.9.1

PANTHER PROWL Florida panthers are endangered and critical to our ecosystem. This augmented reality experience allows learners to connect with the Florida panther and conservation. The interactive show is accessible through the Museum of Discovery and Science mobile app on iOS and Android devices.

 IMAX Film Match: *Back From The Brink*
Standards: SC.K.L.14.3, SC.1.L.14.1, SC.2.L.17.2

Sponsored by 



LABS


FOOD FORAGE Learners will explore healthy eating with this plant-to-table take on the origins of food. Learners will create a masterpiece by playing with fruits and vegetables and exploring these important food groups.

 IMAX Film Match: *Backyard Wilderness*
Standards: HE.K.P.7.1, HE.K.C.1.1, HE.1.C.1.1, HE.1.P.8.1, HE.2.C.1.1, HE.2.P.7.1




DEMONSTRATIONS

PUSH, PULL AND PULLEYS This dynamic demonstration is all about discovering forces! Learners will investigate those forces as they apply to simple machines.

 IMAX Film Match: *Space Station 3D*
Standards: SC.K.P.12.1, SC.1.P.13.1, SC.2.P.13.1


WHAT'S UP WITH WEATHER? Weather is important to the planet. This demonstration takes learners through the great water cycle and its significance in Earth's weather patterns.

 IMAX Film Match: *A Beautiful Planet 3D*
Standards: SC.K.E.5.2, SC.1.E.6.1, SC.2.E.7.3




MAKERSPACE

BEGINNER BOTS Learners will explore the basics of robots through building and coding with our collection of interactive bots.

 IMAX Film Match: *Hubble 3D*
Standards: SC.K.N.1.4, SC.1.P.12.1, SC.K2.CS-CP.2.4

TOOL TIME Learners will swing a hammer, sew a seam or create a vehicle using hot glue guns and nail their project in this fun design powered lesson.

 IMAX Film Match: *Dream Big*
Standards: SC.K.P.9.1, SC.1.P.8.1, SC.2.P.8.1

**For the welfare of our animals, the number and species of animals included depends on availability.



OUTREACH EXPERIENCES GRADES K-2



**BOOK THREE
EXPERIENCES**
in a year and receive
a special discount
of \$50!



ASSEMBLY

ANIMAL AMBASSADORS Gather your learners together to meet some of our resident animal ambassadors as they discover each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**
Standards: SC.K.L.14.3, SC.1.L.14.1, SC.1.L.17.1, SC.2.L.17.1

CRAZY CHEMISTRY! Learners will be amazed as energy and matter come to life in this exciting chemistry demonstration.
Standards: SC.K.N.1.5, SC.1.P.8.1, SC.2.P.9.1, SC.2.P.8.2



CLASSROOM

BUG VENTURE Your learners will explore the fascinating world of insects and arthropods as some of our MODS' animal ambassadors come to visit. Explore the life cycle, habitat and requirements of life of these bugs. Learners will make a bug to keep.**
Standards: SC.K.L.14.3, SC.1.L.17.1, SC.2.L.17.1, SC.2.L.17.2

FAIRY TALE FUN Learners will listen to the classic fairy tale of *The Three Little Pigs* and construct a project based on the story's engineering challenge dilemma.
Standards: SC.K.N.1.4, SC.1.N.1.1, SC.2.N.1.1

GERMS: MORE THAN COOTIES How can something so small make us sick? Learners will hear about germs such as bacteria and viruses and how small they really are. During this interactive lesson, learners will discover how germs are spread.
Standards: SC.K.N.1.5, SC.K.N.1.4, SC.1.L.14.1, SC.2.L.17.2

SPACE EXPLORATIONS From lift-off to touch down, learners will discover life in space and the objects outside the rocket window.
Standards: SC.K.E.5.6, SC.1.E.5.1, SC.2.N.1.6



**VIRTUAL
EXPERIENCES
AVAILABLE!**
Please contact
booking@mods.org.



**For the welfare of our animals, the number and species of animals included depends on availability.

Grades 3-5

ONSITE PROGRAM SELECTIONS



SHOWS

KABOOM! Learners will explore the different states of matter and the many ways we can chemically change the matter around us. Learners also will witness fire, sparks and large explosions as they explore the science behind these chemical reactions.

 IMAX Film Match: *Hubble 3D*

Standards: SC.3.P.10.2, SC.4.P.10.2, SC.5.P.10.2

ANIMAL AMBASSADORS Learners will meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

 IMAX Film Match: *Back From The Brink, Incredible Predators 3D*

Standards: SC.3.L.15.1, SC.4.L.16., SC.5.L.15.1

PANTHER PROWL Florida panthers are endangered and critical to our ecosystem. This augmented reality experience allows learners to connect with the Florida panther and conservation. The interactive show is accessible through the Museum of Discovery and Science mobile app on iOS and Android devices.

 IMAX Film Match: *Back From The Brink*

Standards: SC.3.L.15.1, SC.4.L.17.4, SC.5.L.17.1

Sponsored by  **FLORIDA PANTHERS
FOUNDATION**



LABS

GUTS, GOO AND POO Learners will discover the revolting things our body systems can do, all in the name of keeping everyone safe and healthy. They also will investigate snot, diapers and more in this "gross anatomy" lab.

 IMAX Film Match: *Born to Be Wild 3D*

Standards: SC.3.L.15.1, SC.4.L.16.3, SC.5.L.14.2



DEMONSTRATIONS

FASCINATING FORCES Every day in every way, forces and energy affect our daily lives. This demonstration covers the forces of gravity, friction, air pressure and centripetal force.

 IMAX Film Match: *Space Station 3D*

Standards: SC.3.P.10.2, SC.4.P.12.1, SC.4.P.12.2, SC.5.P.13.1, SC.5.P.13.2

EVERGLADES OUR BACKYARD Learners will investigate the unique adaptations of species that call the Everglades home and will participate in a food web seeing how these creatures interact.

 IMAX Film Match: *National Parks Adventure 3D*

Standards: SC.3.L.14.1, SC.3.L.15.1, SC.4.E.6.3, SC.5.L.17.1



MAKERSPACE

BUILD A BOT Learners will explore robots through building and coding with our collection of interactive bots.

 IMAX Film Match: *Hubble 3D*

Standards: SC.3.N.3.2, SC.4.N.2.1, SC.5.N.2.2

CIRCUIT ARTISTRY Your engineers will explore the world of circuits with a twist, using conductive dough to make colorful sculptures. Learners will create a circuit to make a card that lights up.

 IMAX Film Match: *Dream Big 3D*

Standards: SC.3.N.1.6, SC.4.N.2.1, SC.5.P.11.1

**For the welfare of our animals, the number and species of animals included depends on availability.

OUTREACH EXPERIENCES GRADES 3-5



CLASSROOM

AMUSEMENT PARK ENGINEERS Fast, fun and fearless. Thrill-seekers will see how various theme park rides are designed and engineered and then create a run of epic proportions for a marble.
Standards: SC.3.P.10.2, SC.4.P.12.1, SC.4.P.12.2, SC.5.P.13.1, SC.5.P.13.2

ALTERNATIVE ENERGY Learners will investigate how electricity works by building and exploring circuits and incorporate our Snap Circuits that utilize solar, mechanical and wind energy to turn on the inventions.
Standards: SC.3.P.10.2, SC.4.P.10.2, SC.5.P.11.1

NISE EARTH AND SPACE Created by the National Informal STEM Education Network and NASA, this outreach will engage learners in Earth and space phenomena. Learners will rotate through a variety of engaging hands-on activities delving into the scientific process and concepts of astronomy, physics and geology.
Standards: SC.3.E.5.1, SC.4.E.5.4, SC.5.E.5.3

BUILD A BEAST Learners will explore adaptations that help Everglades animals to survive in this extraordinary ecosystem, then create a custom creature perfectly suited to reside in one of six unique habitats.
Standards: SC.5.L.17.1, SC.3.L.17.1, SC.4.L.17.4



ASSEMBLY

CRAZY CHEMISTRY! Learners will be amazed as energy and matter come to life in this exciting chemistry demonstration.
Standards: SC.3.P.10.2, SC.4.N.1.2, SC.5.P.9.1

ANIMAL AMBASSADORS Learners will gather together to meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**
Standards: SC.3.L.15.1, SC.4.L.16.3, SC.5.L.17.1






Grades 6-8

ONSITE PROGRAM SELECTIONS



SHOWS


KaBOOM! Learners will hear about the different states of matter and the many ways we can chemically change the matter around us. Learners also will witness fire, sparks and large explosions as they explore the science behind these chemical reactions.

 IMAX Film Match: *Hubble 3D*
Standards: SC.6.P.11.1, SC.7.P.11.3, SC.8.P.9.2


ANIMAL AMBASSADORS Learners will meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

 IMAX Film Match: *Back From The Brink, Born to Be Wild 3D*
Standards: SC.6.L.15.1, SC.7.L.17.2, SC.8.L.18.4

COOL OFF- LIQUID NITROGEN Learners will be amazed as they observe what happens to objects in extremely cold liquid nitrogen at a temperature of -320 degrees Fahrenheit. It will be the COOLEST thing they see.

 IMAX Film Match: *The Arctic, The Antarctic*
Standards: SC.6.P.11.1, SC.7.P.11.3, SC.8.P.9.2

PANTHER PROWL Florida panthers are endangered and critical to our ecosystem. This augmented reality experience allows learners to connect with the Florida panther and conservation. The interactive show is accessible through the Museum of Discovery and Science mobile app on iOS and Android devices.


 IMAX Film Match: *Back From The Brink*
Standards: SC.6.L.15.1, SC.7.L.15.3, SC.8.L.18.4

Sponsored by  **FLORIDA PANTHERS
FOUNDATION**



LABS


NISE CHEMISTRY LAB Created by the National Informal STEM Educators (NISE) Network and the American Chemical Society, this session will engage learners through rotating station-based activities including battery building, environmental cleanup and scent molecules.

 IMAX Film Match: *Space Station 3D*
Standards: SC.6.P.11.1, SC.7.N.1.4, SC.8.P.8.9



DEMONSTRATIONS

CORAL REEF RANGERS The Florida Keys hold the third largest coral reef on Earth. Your reef rangers will investigate how and where coral live, why coral is so crucial to human life and the importance of protecting coral reefs.

 IMAX Film Match: *Great Barrier Reef 3D*
Standards: SC.6.L.14.1, SC.7.L.15.3, SC.8.L.18.4

Sponsored by




EPIDEMIOLOGY Your epidemiologists will track germs from the source in this interactive demonstration on how germs spread and then discuss ways to prevent future pandemics.

 IMAX Film Match: *Back From The Brink*
Standards: SC.6.N.1.1, SC.7.L.17.2, SC.8.L.18.3



MAKERSPACE

CIVIL ENGINEERS Engineers build things for the public and in the natural environment. Learners will explore the design process, which is a fundamental part of engineering.

 IMAX Film Match: *Dream Big 3D*
Standards: CTE-TECED.68.CONTEC.03.03, CTE-TECED.68.CONTEC.05.02, CTE-TECED.68.CONTEC.06.01

MECHANICAL ENGINEERS Flying cars are not just an invention of the future. Your engineers will design and create custom glider cars that can roll, glide and land.

 IMAX Film Match: *Dream Big 3D*
Standards: CTE-TECED.68.TSPTEC.01.02, CTE-TECED.68.ENTECH.07.04, CTE-TECED.68.ENTECH.08.03

OUTREACH EXPERIENCES GRADES 6-8



CLASSROOM

HEREDITY AND GENETICS What makes us unique? Learners will explore some common human genetics as we look at gene expression and use their newfound knowledge to create a “super baby.”

Standards: SC.912.L.15.15, SC.912.L.16.2, SC.912.L.16.4

DISCOVERING DNA Your geneticists will extract the double helix from household ingredients and build a custom model of genetic information.

Standards: CTE-HLTH.68.BIOTEC.01.04

AWESOME AQUIFERS Learners will discover the unique underground landscape of Florida’s Everglades as they create and test a model to see how potential threats would affect the landscape.

Standards: SC.6.E.7.2, SC.7.E.6.6, SC.8.N.4.2

ELECTRICAL ENGINEERS Your engineers will explore how circuits work by building a scribble-bot and light-up greeting cards for that special someone.

Standards: CTE-TECED.68.ELCTEC.01.03, CTE-TECED.68.ROBTEC.01.02



ASSEMBLY

CRAZY CHEMISTRY! Amaze your learners as energy and matter come to life in this exciting chemistry demonstration.

Standards: SC.6.P.11.1, SC.6.N.1. , SC.6.N.3.3, SC.7.P.11.3, SC.8.P.9.2

ANIMAL AMBASSADORS Learners will gather together to meet some of MODS’ resident animal ambassadors and hear about each animal’s unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

Standards: SC.6.L.15.1, SC.7.L.15.3, SC.8.N.2.1



VIRTUAL EXPERIENCES AVAILABLE!
Please contact booking@mods.org.

**For the welfare of our animals, the number and species of animals included depends on availability.



BOOK THREE EXPERIENCES in a year and receive a special discount of \$50!

Grades 9-12

ONSITE PROGRAM SELECTIONS



SHOWS

KaBOOM! Learners will hear about the different states of matter and the many ways we can chemically change the matter around us. Learners also will witness fire, sparks and large explosions as they explore the science behind these chemical reactions.

 IMAX Film Match: *Space Station 3D*

Standards: SC.912.P.8.2, SC.912.P.8.11, SC.912.P.10.11, SC.912.P.12.12

ANIMAL AMBASSADORS Learners will meet some of MODS' resident animal ambassadors and hear about each animal's unique behaviors, physical features and survival techniques. Learners will gain a better understanding of these wild creatures and how they are unique from other animals.**

 IMAX Film Match: *Back From The Brink, Born to Be Wild 3D*

Standards: SC.912.L.17.3, SC.912.L.17.6, SC.912.L.17.8

PANTHER PROWL Florida panthers are endangered and critical to our ecosystem. This augmented reality experience allows learners to connect with the Florida panther and conservation. The interactive show is accessible through the Museum of Discovery and Science mobile app on iOS and Android devices.

 IMAX Film Match: *Back From The Brink*

Standards: SC.912.L.17.4, SC.912.L.17.8

Sponsored by  **FLORIDA PANTHERS
FOUNDATION**



DEMONSTRATIONS

ECOSCAPES ADVENTURES Explorers will discover the wide variety of niche ecosystems as they tour our exhibit and stop along the way to greet some of MODS' animal ambassadors.**

 IMAX Film Match: *Back From The Brink, Amazon Adventure*

Standards: SC.912.E.7.4, SC.912.E.7.8, SC.912.L.17.10, SC.912.L.17.6, SC.912.L.17.4



LABS

COASTAL CRUSADERS The coast is vital to Florida's economy and ecosystems. Learners will discuss ways to protect the coastline and then experiment with manmade and natural solutions for disappearing beaches.

 IMAX Film Match: *Great Bear Rainforest, Under the Sea 3D*

Standards: SC.912.L.17.17, SC.912.E.7.8, SC.912.E.7.4, SC.912.L.17.8

SKATEBOARD SCIENCE Physics meets fun as we explore Newton's laws while riding a skateboard. Learners will create a tech deck-style board to continue the ride at home.

 IMAX Film Match: *Dream Big*

Standards: SC.912.P.12.3, SC.912.P.12.2, SC.912.P.12.5

SWAB IT! Learners will discover the microscopic world right under their noses. Scour the Museum with a swab and magnify what they find using a microscope while discussing ways to prevent future pandemics.

 IMAX Film Match: *Backyard Wilderness*

Standards: SC.912.L.14.1, SC.912.N.1.6, SC.912.L.14.3



MAKERSPACE

SEW WHAT? Makers will create fabric art that lights up in this high-tech tool extravaganza. Fashion and engineering combine for this experience.

 IMAX Film Match: *Dream Big*

Standards: SC.912.N.1.7, CTE-AATC.68.VISUAL.08.04

FLY ZONE Ideas take flight in the Makerspace Fly Zone! In the wind tube zone, learners will be challenged to create items that hover while exploring aerodynamics. They'll build a device that flies to see how small changes can affect the accuracy and distance of a projectile.

 IMAX Film Match: *Space Station 3D*

Standards: SC.912.P.12.4, CTE-TECED.68.AERTEC.03.04



OUTREACH EXPERIENCES GRADES 9-12

BOOK THREE
EXPERIENCES
in a year and receive
a special discount
of \$50!



ASSEMBLY

WISE BODIES SCHOOL OUTREACH In this FREE 45-minute hands-on curriculum on HIV and STDs, learners will understand how people contract infectious diseases, how the body defends itself against infection and how humans prevent the spread of disease. Wise Bodies has been approved by the Broward County Public School District. Standards: SC.912.L.14.6, SC.912.L.14.52, SC.912.L.16.7, SC.912.L.16.13

WATER CONSERVATIONISTS Learners will dive into the world of water as we discuss ways to conserve this precious commodity and create a plan to save water individually and advocate it to others locally and globally. Standards: SC.912.E.7.9, SC.912.L.17.17, SC.912.L.17.19, SC.912.L.17.20



CLASSROOM

DICHOTOMY DETECTIVES Show your learners how species are classified and organized through a fun look at nomenclature as they create a dichotomous or sorting key based on characteristics of organisms. Learners will discover how scientists share and communicate their observations. Standards: SC.912.L.15.4, SC.912.L.15.5, SC.912.L.15.6, SC.912.L.15.7

HEREDITY AND GENETICS What makes us unique? Learners will explore some common human genetics as we look at gene expression and use their newfound knowledge to create a “super baby.” Standards: SC.912.L.15.15, SC.912.L.16.2, SC.912.L.16.4

CELL STORIES Learners will use our high-tech tools to create parts of a cell, then team up with classmates to tell the story of the cell. Standards: SC.912.L.14.2, SC.912.L.14.1, SC.912.L.14.3

AWESOME AQUIFERS Learners will discover the unique underground landscape of Florida’s Everglades and create and test a model to see how potential threats would affect the landscape. Standards: SC.912.E.7.9, SC.912.E.6.4, SC.912.L.17.7

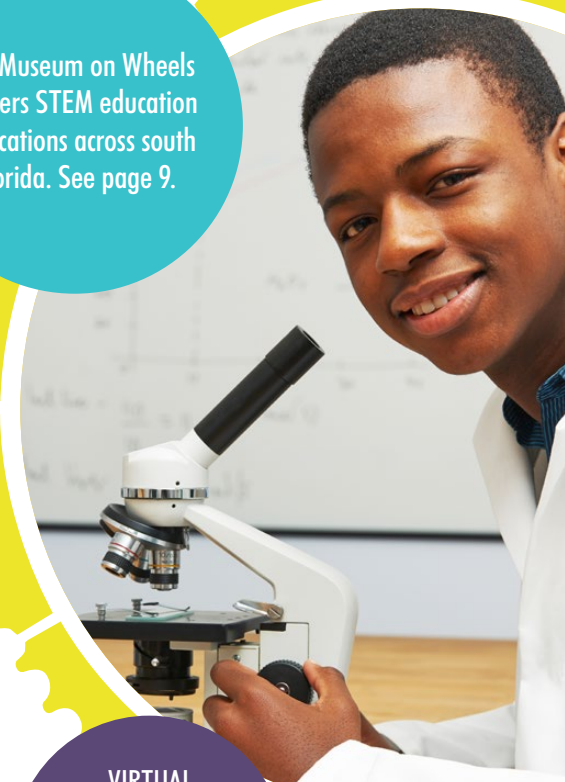


HIV/AIDS Prevention & Wellness

Sponsored by



Our Museum on Wheels
delivers STEM education
at locations across south
Florida. See page 9.



VIRTUAL
EXPERIENCES
AVAILABLE!
Please contact
booking@mods.org.



IMAX FILM LIBRARY

NEW FILMS

Each film is aligned with Florida State Standards. 45-minutes in length and recommended for general audience ages 5+.



Learners will explore the farthest reaches of this wild and majestic continent, which is the coldest, driest and windiest place on Earth.

 **EXPLORATION**

 **HABITAT**

PAIRS WELL WITH:

 **COOL OFF – LIQUID NITROGEN**



Explorers travel the world searching vast underground caves for geologic “fingerprints” that reveal clues about Earth’s climate history.

 **CLIMATE CHANGE**

 **AQUIFERS**

PAIRS WELL WITH:

 **FLORIDA WATERSTORY**

 **AWESOME AQUIFERS**

Legend

 **THEME**

 **CURRICULUM**

 **EXHIBIT**

 **LABS**

 **SHOWS**





Locally Sponsored by



Learners will explore with 10-year-old Dana who sees dinosaurs in the real world and completes an experiment that asks where all the kid dinosaurs are.

ADVENTURE, JOURNEY

SCIENTIFIC METHOD

PAIRS WELL WITH:

DINO DANA THE EXHIBIT

DINO DANA

Learners will go on an unforgettable cross-country adventure into the hidden wonders of the natural world and the most beautiful yet untamed landscapes of America.

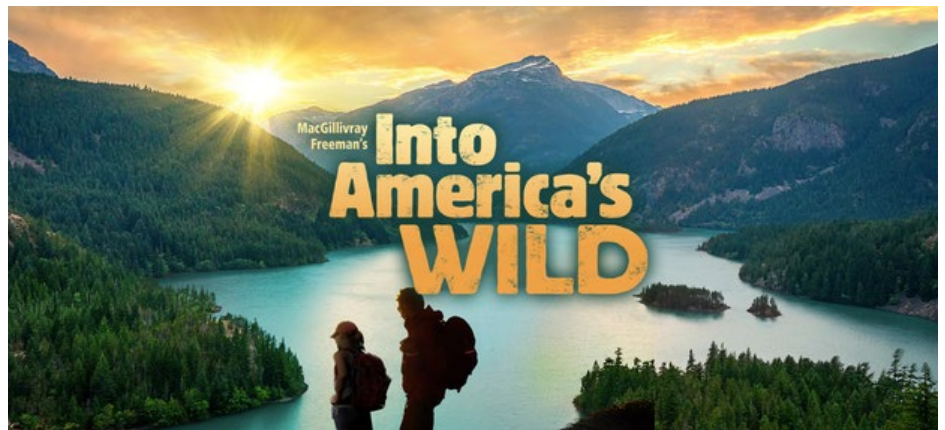
ADVENTURE

HABITAT

PAIRS WELL WITH:

PREHISTORIC FLORIDA

BUILD A BEAST



Learners will visit the vast, wild Arctic world untouched by time, where some of the greatest wildlife spectacles unfold.

CLIMATE CHANGE

RESILIENCE, REFUGE

PAIRS WELL WITH:

COOL OFF – LIQUID NITROGEN



IMAX FILM LIBRARY

POPULAR FILMS



Learners will experience the natural beauty and exquisite strangeness of the world's largest living wonder and meet the visionaries and citizen scientists who are helping to protect this awesome and vibrant living world.

 **CORALS**

 **ENERGY TRANSFER**

PAIRS WELL WITH:

 **FLORIDA ECOSCAPES**

 **COASTAL CRUSADERS**



Great Bear Rainforest is one of the wildest places left on earth. Learners will journey to a land of grizzlies, wolves, sea otters and the rarest bear on the planet.

 **BIOMES**

 **INTERDEPENDENCE**

PAIRS WELL WITH:

 **FLORIDA ECOSCAPES**

 **BUILD A BEAST**



Journey around the globe to meet remarkable dogs who save lives and discover the powerful bond they share with their human partners in this inspiring true story.

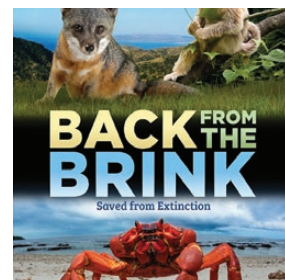
 **CHARACTER TRAITS**

 **ROLE MODEL**

PAIRS WELL WITH:

 **MOTION + EMOTION**

MODS CLASSICS



Legend

 **THEME**

 **CURRICULUM**

 **EXHIBIT**

 **LABS**

 **SHOWS**



Learners will join panda Qian Qian on an exciting journey in the mountains of Sichuan as she takes her first steps outside her protected habitat discovering her true animal nature.

 **ANIMAL CHARACTERISTICS**

 **ADAPTATIONS**

PAIRS WELL WITH:

 **PANTHER PLAY**

 **PANTHER PROWL**



Hubble 3D takes learners on an unprecedented voyage through distant galaxies to explore the grandeur and mystery of our celestial surroundings.

 **SPACE EXPLORATION**

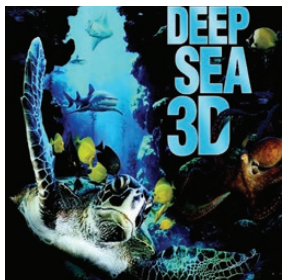
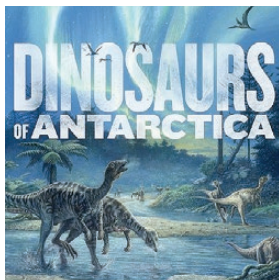
 **GALAXY, SOLAR SYSTEM**

PAIRS WELL WITH:

 **MY MOON, SPACE EXPLORATION**

IMAX Resource Guides for Educators

Teacher resource guides are available for free to accompany most IMAX documentary films. Request when you reserve your experience.



**FIRST FLOOR
PERMANENT EXHIBITS**

OTTERS AT PLAY

Learners will observe and learn about the rescued North American river otters in their own two-story indoor/outdoor habitat, complete with swimming pool and waterfall.



**Everglades
Airboat
Adventure**



Adventurers will hop on board our 20-person airboat and take a ride through the Florida Everglades, without ever leaving the Museum, to learn about the water, weather, plants and animals that call this wetland home!

SCIENCE PARK

Explorers will jump, swing and discover the principles of physics and engineering in an outdoor setting. The engaging giant full-body exhibits, include a ball range, bottle rockets, tennis ball launcher, giant levers, kaleidoscopes, pulleys, roller coaster, wheel roll, sound station, sun spotter and FPL SolarNow™ Tree.





Florida Water Story

Water is one of Florida's (and the Earth's) most precious resources. In this exhibit, learners will walk through an aquifer where Florida's drinking water is stored before it reaches our tap! Explore the source of Florida's water supply, discover how everyday choices can impact our water and examine how water pollution can impact Florida's coral reefs.

GO GREEN!

Learners will uncover the "R's" of recycling by playing the recycling game.



FIRST FLOOR PERMANENT EXHIBITS

BOOK THREE EXPERIENCES in a year and receive a special discount of \$50!



STORM CENTER

Learners will feel the rush of hurricane force winds in the hurricane simulator, touch the vortex of a 10-foot tornado, generate a cloud, peer into a plasma sphere and test construction against hurricane winds in Florida International University's Wall of Wind.

PREHISTORIC FLORIDA

Learners will 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 level. Step into the mouth of a giant megalodon, confront a saber-toothed cat and an Imperial Mammoth to learn how they came to live in ancient Florida.



Florida ECOSCAPES

Learners will meet the native plants and animals that call Florida home and learn how exotic species are invading the ecosystem. See sharks, bats, coral, alligators, sea turtles and snakes as you go on an indoor nature hike through Florida's various habitats.

Life Sciences Sponsored by



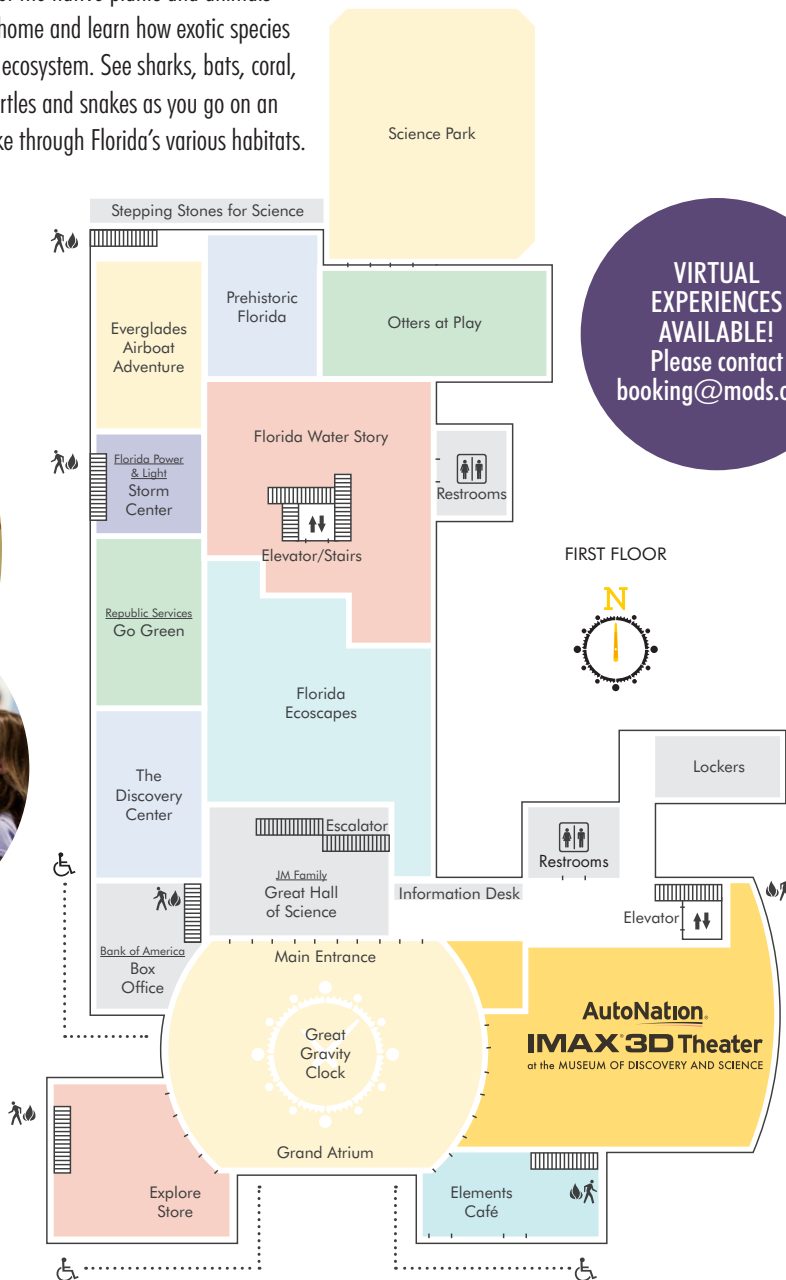
The Batchelor Foundation



THE DISCOVERY CENTER

(ages 6 and under)

Young learners will explore the fundamentals of counting, sorting, matching, role playing, cooperative play and teamwork.



VIRTUAL EXPERIENCES AVAILABLE!
Please contact booking@mods.org.


SECOND FLOOR
PERMANENT EXHIBITS



DINO
DANA

Learners will stomp throughout the Dino Dana Exhibit to discover spectacular science in a prehistoric-meets-modern day experience! As paleontologists in training, Dana invites learners to meet her friends and come along on an epic adventure to learn about prehistoric creatures. Meet in Dana's room, explore the Dinosaur Boneyard, then experiment with the coolest Fossil Hunt augmented reality (AR) and catch the Paleontologist in Training Live Show in our Keller Science Theater.

In Partnership with



and Sponsored by



DESIGN!
BUILD! PLAY!
KEVA!

Learners will build a bridge, a skyscraper or design a structure in our KEVA exhibit. These simple wooden planks provide endless possibilities for young minds to think and create in three dimensions, working together to unravel physics challenges using principles of balance, geometric shapes and stability to build creations with structural integrity.

Sponsored by **MEIKE & DOMINICK MINIACI**

Minerals
ROCK

Learners will touch real lava and make a "volcano" erupt to see how new rocks and land masses are formed. Explore more than 60 different minerals, rocks and ammonites.

On Loan from



CAROL JACOBS MINERAL & AMMONITE COLLECTION



THE HANGAR MAKERSPACE

Learners can experience *The Hangar*, our hands-on idea hub, to learn the methods behind the madness of making and launch their own Makerspace invention!

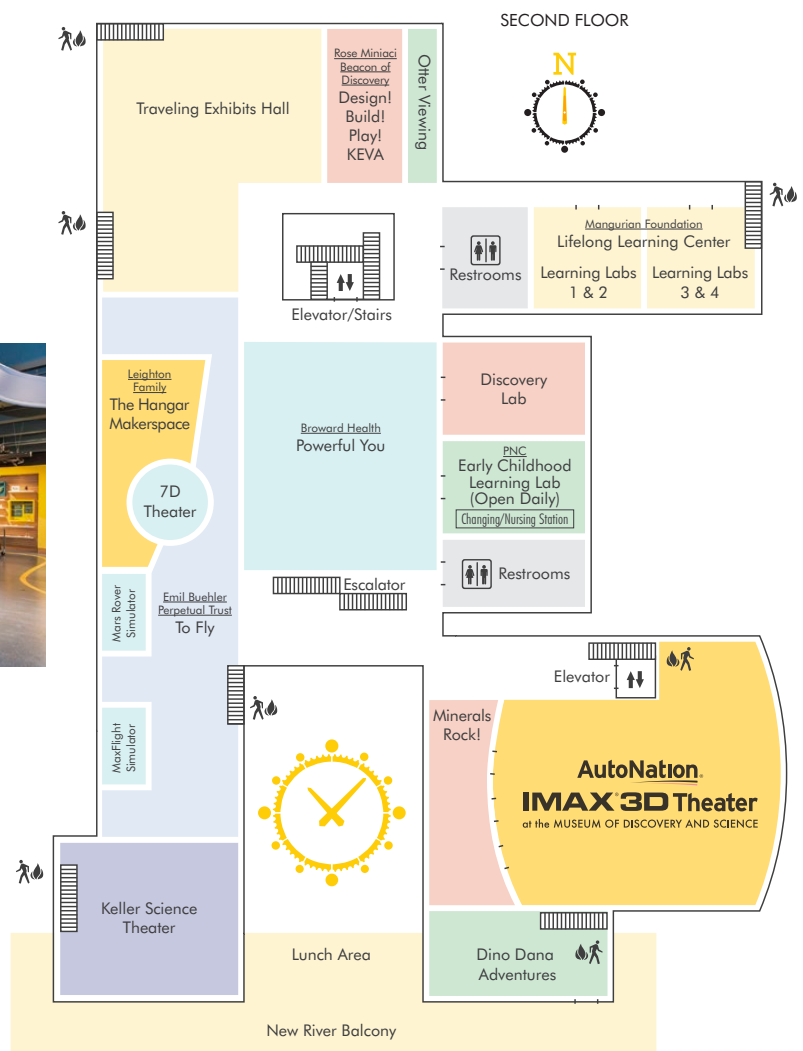
Sponsored by
LEIGHTON
FAMILY

Daily Creation and
Innovation Sponsored by
citrix

TO FLY

Learners will explore 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. Pilots in training will go on an exhilarating flight through the sky in the 7D capsule theater with multi-sensory effects.

Sponsored by
EMIL BUEHLER
PERPETUAL TRUST



SECOND FLOOR PERMANENT EXHIBITS

BOOK THREE EXPERIENCES in a year and receive a special discount of \$50!



POWERFUL YOU!

This exhibit features four exciting zones: Powerful Team, Powerful Pulse, Powerful You and The Cutting Edge, highlighting the amazing miracle of the human body and the tools used by health professionals to keep us healthy! Learners 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 healthy and test their flexibility, balance and heartbeat.

Sponsored by **BROWARD HEALTH**

KELLER SCIENCE THEATER

Learners will enjoy exciting demonstrations of physical and chemical phenomena, animal ambassador shows and other exciting science shows. Here, they will learn about everything from liquid nitrogen to alligators to coral reef rangers from our knowledgeable educators who can turn any science topic into an unforgettable experience of discovery and exploration. The theater can seat up to 100 students.





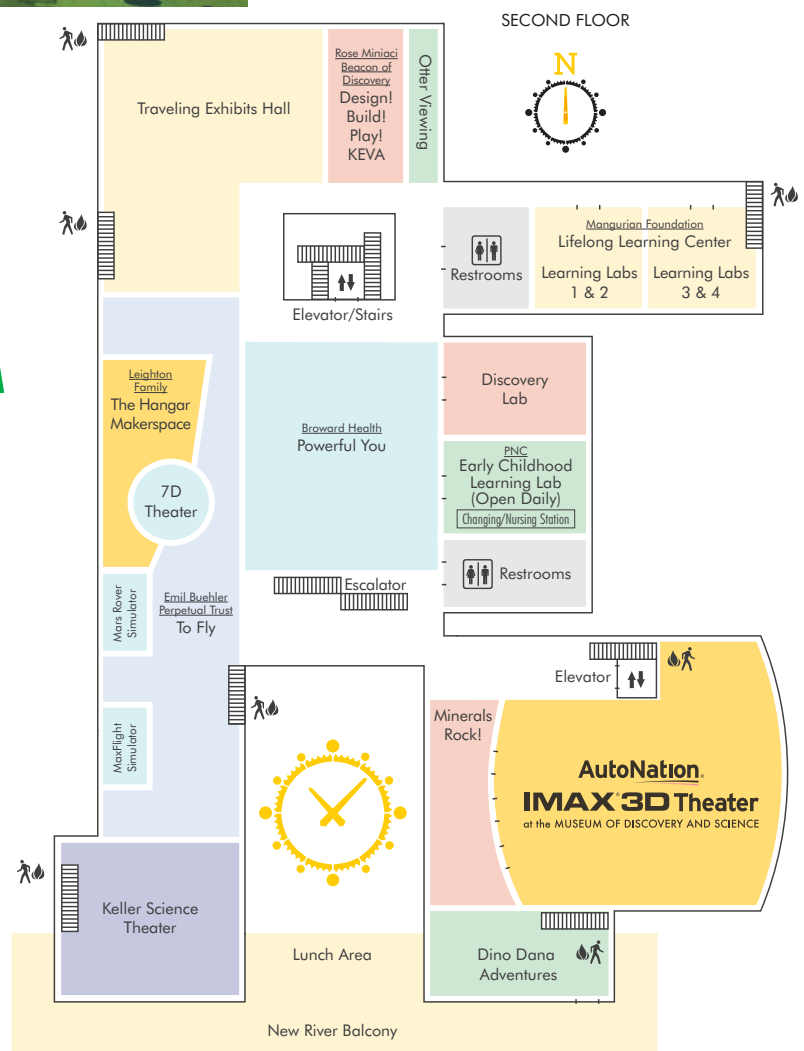
Sprouting STEM

Early Childhood Learning Lab

Powered by
  Grow Up Great

Little learners can find BIG discoveries in a space designed especially for ages 0-6. Upon entering the space, learners will be transported to a rich nature filled south Florida backyard landscape complete with native plants and wildlife, which they will experience from the perspective of a small insect. Sprouting STEM programming hosted within the lab will include hands-on STEM activities, arts and crafts, music, story time and more.

VIRTUAL EXPERIENCES AVAILABLE!
 Please contact booking@mods.org.



TRAVELING EXHIBITS

(Traveling Exhibits Included with General Admission)



Admission at MODS encompasses more than 150,000 square feet of interactive exhibits ready to engage your learners. This includes all of our permanent and traveling exhibits, as well as our outdoor Science Park.

nickelodeon

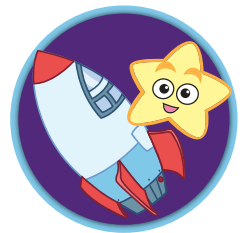
DORA & DIEGO

LET'S EXPLORE!

September 17, 2021 through January 17, 2022

Come on! ¡Vámonos! with Nickelodeon's *Dora and Diego—Let's Explore*, will take learners on an active adventure in the enchanting world of Dora the Explorer, her animal-rescuing cousin Diego and their friends. Boots, Map, Backpack, Isa, Tico and of course, Swiper (no swiping!), are waiting for your explorers to learn and play along. Exhibit adventure includes:

- ☺ Rocket Ship - Space travelers will pilot the ship and help Dora and Boots take their friends home to the Purple Planet.
- ☺ Pirate Piggies' Ship - Sailors will take to the high seas with the Pirate Piggies' ship and divvy up the treasure!
- ☺ Animal Rescue Center - Aspiring veterinarians will care for endangered baby animals.
- ☺ Tico's Nutty Forest - Learners will help Tico gather nuts to fuel his car before Swiper swipes them.
- ☺ Isa's Garden - Botanists will tend Isa's garden by sorting her flowers by shape.



¡Vámonos! Everybody, let's go!

Produced by
CHILDREN'S MUSEUM
INDIANAPOLIS

in cooperation with
nickelodeon

Presented by **JM LEXUS**



Nicklaus Children's Hospital



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PLANET PIONEERS

TO MARS AND BEYOND

JANUARY 28, 2022 THROUGH MAY 16, 2022



Your space explorers will leave Earth behind and travel into the unknown for an extraordinary extraterrestrial experience. In *Planet Pioneers To Mars and Beyond*, learners will travel to another world and explore, adapt and survive on a brand-new planet. Planet Pioneers puts budding astronauts and space explorers to the test as they attempt to source their own food, air and shelter while solving problems in an unknown world. They will drive a 4-D surface exploration vehicle, land a rocket, experience G-force in a spinning capsule and master 14 other interactive activities designed to test those skills.

Learners will find out about the planets in our solar system and what it takes to visit them, discover how to successfully pack the right equipment for the voyage to a distant planet, recruit the perfect crew and set up a base of operations. They'll determine where to source water and grow food in an alien atmosphere and build a shelter to survive the elements.

Presented by  **Joe DiMaggio Children's Hospital**

THE MUSEUM HOSTS NATIONALLY RECOGNIZED TRAVELING EXHIBITS ANNUALLY WITH SPONSORSHIP SUPPORT PROUDLY PROVIDED BY



TRAVELING EXHIBITS



DINOSAURS IN MOTION

WHERE ART & SCIENCE MEET



MAY 27, 2022 THROUGH SEPTEMBER 6, 2022

Where Art, Science + Dinos meet! Dinosaurs in Motion is an interactive, engaging STEAM (Science, Technology, Engineering, Art and Math) exhibit where learners will discover 14 magnificent, fully interactive, recycled life-size metal dinosaur sculptures inspired by actual fossils.

Learners will try their hand at the lever-and-pulley systems or remote controls in a brand-new exhibit that fuses art with traditional STEAM. Explorers will travel along an apprentice's path that ends at Innovation Stations, where they can test their creativity and newfound technological inspiration with hands-on activities.

**VIRTUAL
EXPERIENCES
AVAILABLE!**
Please contact
booking@mods.org.

BOOK THREE EXPERIENCES
in a year and receive a special discount of \$50!



THE SALAH FOUNDATION STEM CENTER FOR EDUCATION AND CAREER DEVELOPMENT

STEM education is vital to our learners' future. MODS' Salah Foundation STEM Center philosophy makes information more meaningful and compelling by connecting it to a student's everyday world. Our strategic, thought-provoking and interdisciplinary approach prepares learners for success that leads to local workforce development. Encourage your high school learners to take advantage of our impactful internships.

APP-TITUDE INTERNSHIP PROGRAM

The award-winning high-impact internship exposes high school learners to careers in computer science and engineering. They will advance their STEM education and engage in coding, animation and app development curriculum strategically designed to connect them to science and technology at MODS.

Learners will also earn college credit, volunteer service hours and a stipend. The App-titude coursework fosters collaboration, creativity, critical thinking, communication and problem solving. Throughout this two-year program, learners meet at MODS a minimum of two times per month and also participate in Florida Atlantic University's College of Engineering and Computer Science's three-week, dual-enrollment course in summer.

The application period is May through September and is open to all Broward County juniors in the Fall of 2022. The program runs throughout junior and senior years.

For additional information, please visit mods.org or email stem@mods.org.

Sponsored by
TRUIST 

In Partnership with




IMMERSIVE INTERSHIPS FOR HIGH SCHOOL STUDENTS!
MODS' App-titude and EcoExplorer empower the next generation of tech titans and environmental stewards, respectively.
INQUIRE TODAY.

EVERGLADES ECOEXPLORER INTERNSHIP PROGRAM

The Everglades EcoExplorer internship is a new program offered to high school learners interested in environmental education and the Everglades.

The program is being supported by The Everglades Foundation, the leading non-profit organization dedicated to restoring and protecting America's Everglades and will combine MODS expertise in curriculum development and workforce readiness training with The Everglades Foundation's award-winning Everglades Literacy Program.

By taking part in the internship, learners will earn detailed, first-hand knowledge of the Everglades ecosystem while developing their workforce readiness skills. The internship is broken into two parts: A 40-hour summer training and field excursion experience and an 80-hour workforce development program. During the school year, learners will work at MODS by delivering detailed Everglades knowledge to Museum guests through exhibit tours, special events and the STEMobile.

For more information, please email lance.cutrer@mods.org.

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Supported by



MODS COMES TO YOU!

Family

SCIENCE NIGHTS:

MODS COMES TO YOU - ALL AGES

MODS brings science to You! Each program offers 15 hands-on experiments with demonstration stations that engage teachers, families and learners through scientific inquiry.

Each station comes with all the materials and includes special training instructions for an adult volunteer. A trained Museum educator will be available to answer questions and ensure a successful experience. Please note capacities, space and volunteer requirements.

SELECT ONE OF THESE ENGAGING SUBJECT AREAS:

(Cannot be combined at a single event)

- ☑ **ENGINEERING AND PHYSICS:** Explore engineering feats, pressure, sound, magnets and states of matter.
- ☑ **EVERYTHING ON EARTH:** Learn about tornadoes, ocean currents, hydrometers and water cycle.
- ☑ **WONDERS OF LIFE:** Journey through a superworm life cycle and use dendrochronology and microscopes.
- ☑ **EARLY CHILDHOOD:** Dive into ramps, Slinkys and tuning forks.
- ☑ **FULL STEAM AHEAD:** Explore pendulums, robots and coding.



TITLE 1 SCHOOLS
may be eligible for scholarships
or FREE outreach programming.
Call 954.713.0930 or
booking@mods.org.



SPECIFICS:

- ☑ Preschool, elementary and middle schools' audience
- ☑ 90-minute program
- ☑ 350 participants maximum
- ☑ Requires 15 adult volunteers from designated school to run the event

AGENDA: (SCHEDULE CAN BE ADAPTED)

- ☑ 5:30 p.m. Museum educator arrives
- ☑ 6:00 p.m. School volunteers arrive
- ☑ 6:30-8:00 p.m. Student/Family Experience

SCHOOL PROVIDES:

- ☑ Large room (cafeteria or auditorium)
- ☑ 15 tables
- ☑ 15 adult volunteers

Program Fee: \$325 per night



PLANETARIUM STAR LAB (Adapted for all grade levels. Grades PreK-5: 30 learners max. Grades 6 and up: 25 learners max.) Learners will take a journey through the night sky in our portable planetarium and zoom through the galaxy as we look at constellations, planets and beyond.

PLEASE NOTE: Our Star Lab can only be booked for indoor facilities with ceilings 13 feet or higher.

Sponsored by



**JOHN H. RAU
SPACE EDUCATION FUND**
COMMUNITY FOUNDATION OF BROWARD

STAR LAB IS SUBJECT TO AVAILABILITY. INQUIRE TODAY!



OVERNIGHTS

AT THE MUSEUM



A night they won't forget! Spend the night with your learners at the Museum and enjoy hands-on science activities, demonstrations, exhibit explorations, live animal encounters and a late-night IMAX film. Learners are provided dinner and can explore the Museum after hours with the chance to sleep in their favorite exhibit areas!

Participant Fee: \$1,520 for 50 participants (including chaperones).

For pricing up to 150 participants maximum, please email booking@mods.org.

SELECT FROM THE FOLLOWING OVERNIGHT THEMES:

NIGHT IN THE EVERGLADES (Adapted for all grade levels.)

The Everglades is our backyard and this adventure will let your learners explore what makes this place so special. Activities include meeting MODS animal ambassadors, riding an airboat and exploring the water cycle. Pairs well with *Into America's Wild* IMAX.

SPACE SIESTA (Adapted for all grade levels.)

Blast off in this overnight filled with intergalactic fun. Learners will build rockets, see the stars and experiment just like astronomers. Pairs well with *Hubble 3D* and *Space Station* IMAX.

ENGINEER FRONTIERS (Adapted for all grade levels.)

Build, create, and innovate the evening away. Learners will use the design process to solve real world problems in our makerspace *The Hangar*. Pairs well with *Dream Big* IMAX.

Funding for MODS is provided in part by the Broward County Board of County Commissioners as recommended by the Broward Cultural Affairs Council and is sponsored in part by the State of Florida, Department of State, Division of Arts & Culture and the Florida Council on Arts and Culture.



STEMobile MADE POSSIBLE BY



STEMobile PROGRAMS SPONSORED BY



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MODS has paid 0% contribution received to outside professional solicitors. Funding in part by the Broward County Board of County Commissioners as recommended by the Broward Cultural Affairs Council and sponsored in part by the State of Florida, Department of State, Division of Arts & Culture and the Florida Council on Arts and Culture. The Museum is accredited by the American Alliance of Museums, Giant Screen Cinema Association and a member of the Association of Science and Technology Centers. MODS is an accessible facility. All contents © 2021 Museum of Discovery and Science. All rights reserved.

To book an overnight, please call 954.713.0930 or email booking@mods.org.

EDUCATORS, SAVE THE DATES!



PROFESSIONAL DEVELOPMENT FOR EDUCATORS

Learners love STEM! Help your learners fuel their curiosity and interest in science, engineering and more. Join Museum STEM educators as we delve into proven methods to inspire young learners to explore through critical thinking, innovation and with real-world applications. You'll learn how to utilize these immersive approaches and lessons in your own classroom. Class are open to preschool through high school educators. Grade appropriate curriculum will be provided as part of the take-home kit.

CREATING A MAKERSPACE IN YOUR CLASSROOM SEPTEMBER 9, 2021 · 5:30 P.M. - 7 P.M.

Explore how to create and maintain a classroom makerspace. We will cover supplies, the design process and a few simple examples of bringing tinkering to life for your learners.

STEM FUSION: CLASSROOM MAKERSPACE AND LITERATURE OCTOBER 7, 2021 · 5:30 P.M. - 7 P.M.

Learn how to incorporate stories and reading with maker projects. From fairy tales to nonfiction, discover how to inspire learners to read more and to bring the written word to life through these hands-on projects.

STEM FUSION: CLASSROOM MAKERSPACE AND SOCIAL STUDIES NOVEMBER 11, 2021 · 5:30 P.M. - 7 P.M.

Make history come alive. From ancient houses to places around the world, learn how the design process can lead to a better understanding of different ways of living for your learners.

STEM FUSION: CLASSROOM MAKERSPACE AND MATHEMATICS DECEMBER 9, 2021 · 5:30 P.M. - 7 P.M.

How would you like to make math more exciting and interesting for your learners? Try using our fun and engaging math maker projects that combine arithmetic and real-world examples.

MODS professional development courses are \$25 per session. Scholarships are available. Please email stem@mods.org for an application for free course enrollment.

To register, please visit mods.org/professionaldevelopment

FREE STEM DISTANCE LEARNING CLASSES

MODS offers livestream distance learning workshops on BECON-TV (WBEC-TV), a broadcast television station owned and operated by the School Board of Broward County and licensed by the FCC to provide noncommercial educational programming to the south Florida community. This K–12 program is designed to supplement instruction and enhance learners' experiences.

2021-2022 CLASSES*	
October 13	Makerspace Robot Rollout
November 17	Dino Dana Exhibit Tour
December 15	Fascinating Forces
January 19	Bug Ventures
February 16	Planet Pioneers Exhibit Tour
March 16	Awesome Aquifers (Created by Everglades EcoExplorer Interns)
May 18	Climate Resiliency

Program time is
9:00 a.m. — 10:00 a.m.
*Subject to change.

For more information or to register for BECON distance learning,
please visit becon.tv or call 1-877-TV-BECON.



REGISTER FOR MODS' FREE DISTINGUISHED SPEAKER SERIES

The Save Our Seas Distinguished Speaker Series, presented by the Save Our Seas Foundation, features scientists, conservationists, researchers and educators who will share their passion for our oceans in programs designed for Museum guests of all ages.

This year, MODS has an exciting lineup of presenters who will discuss their research-discoveries across a spectrum of topics, from sharks to manta rays, sawfish, algal blooms, bull sharks and much more! We are also bringing back our popular Sea Turtle and Shark Expert Panel Discussion, which will feature prominent researchers and conservationists from across the region. This series is FREE.

OCTOBER 7 | 6:00 P.M. (EDT) | VIRTUAL EVENT SHARK CONSERVATION PANEL DISCUSSION

- ☑ **STEPHEN KAJIURA, PH.D.**, professor in the Department of Biological Sciences at Florida Atlantic University
- ☑ **MARIANNE PORTER, PH.D.**, assistant professor in the Department of Biological Sciences at Florida Atlantic University
- ☑ **HANNAH MEDD**, founder of the American Shark Conservancy

NOVEMBER 7 | 1:00 P.M. (EDT) | ONSITE EVENT SEA TURTLE SEASON WRAP-UP

- ☑ **DEREK BURKHOLDER, PH.D.**, director of Broward County Sea Turtle Conservation Program and Marine Environmental Education Center, research scientist at the Guy Harvey Research Institute and Save Our Seas Shark Research Center.

For registration and additional dates,

please visit mods.org/saveourseasspeakers.

Sponsored by



FREE

FIELD TRIP FOR TITLE 1 SCHOOLS WITH ASTRONAUT KAREN NYBERG - ONE DAY ONLY (OCTOBER 8)!

MODS IN SPACE: ASTRONAUT ENCOUNTER FEATURING KAREN NYBERG.*

Learners in grades 4 - 8 will be inspired by a real astronaut, engineer and space traveler. Nyberg will engage learners with stories of "Life in Space" followed by a screening of *Hubble 3D* in the AutoNation IMAX Theater. After, learners will explore the Museum and participate in space-themed making activities led by MODS educators.

Mission Date: One day only! Friday, October 8, 2021*

Launch Time: 10 a.m. COST: FREE

★ ★ ★ **SPACE IS LIMITED**

Sponsored by



*Program date is subject to change based on COVID regulations. Space is limited.



INCLUSIVITY AT MODS

The Museum of Discovery and Science welcomes individuals from all walks of life to visit, experience, connect and discover inspiring science. We support all family structures, creating a culture of hospitality where diversity is celebrated. Our doors are open to everyone: individuals and families with physical and emotional disabilities, sensory-friendly and disparities in education, social and economic status. We embrace our diverse community of various ethnicities, abilities, religions, gender identification and sexual orientations.



ALL ARE WELCOME!

Our New Online Registration Forms are Fast & Easy.

BOOK AN EXPERIENCE TODAY AT mods.org/reservations

TITLE 1 SCHOOLS and schools located in the following zip codes (33309, 33311, 33313, 33319, 33023 and 33069) may be eligible for scholarships or **FREE** programming.



MUSEUM HOURS
Monday – Saturday 10 a.m. to 5 p.m.
Sunday 12 p.m. to 5 p.m.
401 SW Second Street
Fort Lauderdale, FL 33312

