



2024-2025

Opportunities

The Maryland Science Center's
Education Programs Guide



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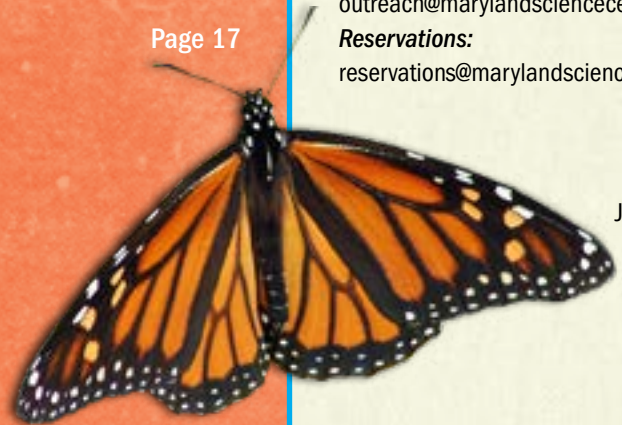
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Code of Conduct

Maryland Science Center Code of Conduct

The Maryland Science Center is a participatory, hands-on environment and welcomes hundreds of thousands of guests each year. We invite you to have fun and use the exhibits actively while being respectful and considerate of others.

Personal Conduct

- All group attendees are required to wear the appropriate sticker/wristband upon entering the building.
- There is no eating, drinking, or snacking on the exhibit floors.
- Chaperones and Teachers must always stay with their students.
- Any chaperone arriving separately from their group must be approved by the lead teacher before entering the exhibit area.
- Unruly behavior, profanity and other offensive language, and symbols or gestures to guests or Science Center team members may be cause for ejection without a refund.
- Possession, use and/or selling of alcoholic beverages or illegal drugs, smoking, vaping, and using cannabis is prohibited.

Staying Connected

Email

Camp-In:
campin@marylandsciencecenter.org


Family Science Night:
famscinight@marylandsciencecenter.org


Traveling Science Program:
outreach@marylandsciencecenter.org


Reservations:
reservations@marylandsciencecenter.org

Online

Website: www.marylandsciencecenter.org

 [Facebook.com/MarylandScienceCenter](https://www.facebook.com/MarylandScienceCenter)

 [X.com/MDSscienceCenter](https://www.x.com/MDSscienceCenter)

 [Instagram.com/MDSscienceCenter](https://www.instagram.com/MDSscienceCenter)

Phone

Field Trip Reservations: 410-545-5929

Camp-In Programs: 410-545-5958

The Science Store: 410-545-5924

24 Hour Information Line: 410-685-5225

Join the Maryland Science Center's E-Community and receive information on new exhibits and special educator resources. To sign up visit www.marylandsciencecenter.org and click the Email Sign up link located in the header of the homepage.

Frequently Asked Questions

What are the costs?

All Maryland students and chaperones visit the exhibit halls for free. IMAX, Planetarium, Kids Room, enrichment experiences, and other programs are available as add-ons. For a full listing of additional options and pricing, including pricing for non-Maryland schools, see page 4.

Do you provide guided tours?

No. We encourage you to experience the museum through self-exploration. We offer structured educational programs.

How long does it usually take to go through the general exhibits?

We recommend allotting approximately two hours to visit the general exhibits. More in-depth investigation will require additional time.

What should I do upon arrival?

When you arrive, leave your students on the bus while you check in the group. You will be issued a sticker for every student, teacher, and chaperone. Once everyone is accounted for, you may enter the Maryland Science Center and enjoy your visit.

Is a deposit required? What are the accepted payment methods? Who should I make the check out to?

No deposits are needed. All payments are due on the date of arrival. Payments can be made in the form of cash, credit (Visa, MasterCard, American Express, or Discover), or a check made out to the Maryland Science Center. Non-Maryland schools must bring payment on the day of their visit. Maryland schools who plan on using a purchase order or requesting an invoice must do so at the time of their reservation—not on the day of their visit.

What happens if my numbers decrease or increase the day of visit?

You will only need to pay for the actual attendees. If you have optional programs that are limited by capacity, we will do our best to accommodate everyone.

Can teachers preview the museum before their group visits?

Yes, all Maryland teachers are admitted to the exhibit halls free of charge, with a school ID or pay stub.

PRO TIP: Our friendly staff are always happy to help! Let your students and chaperones know to look for a staff member if they have questions or need assistance during your visit.

The Science Store

Our store offers a wide selection of items that complement our programs and exhibits. Kits, games, teaching aids, resource books, gifts, and souvenirs are all available for purchase. The Science Store is open during regular Maryland Science Center hours of operation. We offer educators a 10% discount with proper ID. For groups who don't have time to shop during a visit, pre-packaged science sacks are available for advance purchase. The sacks are \$3 each and can be customized according to the age of your group. Please order at least two weeks prior to your visit.

Call us at 410-545-5924.



Field Trip Pricing and Important Information

The Maryland Science Center welcomes all Maryland students and chaperones reserving as a group to its exhibit halls free of charge. Plan your visit today!

Science Beyond the Classroom, powered by Constellation provides free admission to all Maryland students, teachers, and chaperones who visit the Science Center on field trips. Free admission support is also provided by the Maryland State Department of Education, The Kahlert Foundation, Transamerica Foundation, Prince George's County Community Partnership Grants Program, Delaplaine Foundation, The John J. Leidy Foundation, Goldsmith Family Foundation, and our generous donors. We also thank Baltimore City, the Citizens of Baltimore County & the Baltimore County Commission on Arts and Sciences, and the Howard County Arts Council and the Howard County Government for their operating support which provides critical support for all our programming.

Important Policies To Know

- Chaperones are required to remain with their students at all times.
- Groups of students are not permitted to visit MSC without an adult chaperone.
- Chaperones are responsible for appropriate behavior of all students in their group.
- Groups exhibiting inappropriate behavior will be asked to leave the Science Center without a refund.

Payment

No deposits are needed. All payments are due on the date of arrival. Payments can be made in the form of cash, credit (Visa, MasterCard, American Express, or Discover), or a check made out to the Maryland Science Center. Non-Maryland schools must bring payment on the day of their visit. Maryland schools who plan on using a purchase order or requesting an invoice must do so at the time of their reservation—not on the day of their visit.

Cancellations

If you must cancel your field trip, Traveling Science Program, or Family Night please call the MSC reservationist at least one full calendar week before your scheduled visit. Those who fail to provide a week's notice will be charged a late cancellation fee of \$75 or 25% of the total reservation, whichever is higher. There is no charge to reschedule due to a school closure or weather emergency.

In the event of severe weather, the Maryland Science Center may close. Watch WBAL-TV for weather-related closings. To verify we are open in case of inclement weather, please phone the 24-hour information line after 7am on the day of your visit: 410-685-2370. Following a weather emergency, call the MSC reservationist to reschedule.

Sensory Friendly Days

At the Maryland Science Center, we continue to build an inclusive culture that celebrates what is unique in each of us. New this year, we will be offering four sensory friendly days with limited reservations open to schools serving children with sensory processing needs.

Dates: October 1, 2024
November 6, 2024
December 5, 2024
February 18, 2025

Maryland School Groups Only*

Basic Admission	Students FREE	Teachers FREE	Chaperones FREE
Enrichment Experiences	\$10.00	FREE	FREE
Davis Planetarium	\$9.00	\$9.00	\$9.00
Observatory	\$9.00	\$9.00	\$9.00
St. John Properties IMAX Theater	\$9.00	\$9.00	\$9.00
Kids Room	\$2.00	FREE	FREE

School Groups Outside of Maryland*

Basic Admission	Students \$9.00	Teachers FREE	Chaperones \$6.00
Enrichment Experiences	\$10.00	FREE	FREE
Davis Planetarium	\$9.00	\$9.00	\$9.00
Observatory	\$9.00	\$9.00	\$9.00
St. John Properties IMAX Theater	\$9.00	\$9.00	\$9.00
Kids Room	\$2.00	FREE	FREE

*Prices valid weekdays only, October 1st - June 13th (excluding major holidays)

Educator Resources

Free Admission For Teachers

The Maryland Science Center offers **free admission** to our exhibit halls to all credentialed Maryland teachers, when not visiting with a school group throughout the year. Upon arrival, present your educator identification (school ID, payroll receipt, etc.) to a ticket agent.

Online Resources

Information identifying links between Next Generation Science Standards and MSC exhibits, enrichment experiences, and theater shows is available from the MSC website. This and other resources, including a scavenger hunt for use during your visit and step-by-step science experiments are all available for download. Visit www.marylandsciencecenter.org/resources to find our online resources.

Camp-In Sleepover For School Groups

Grades: 3rd-5th

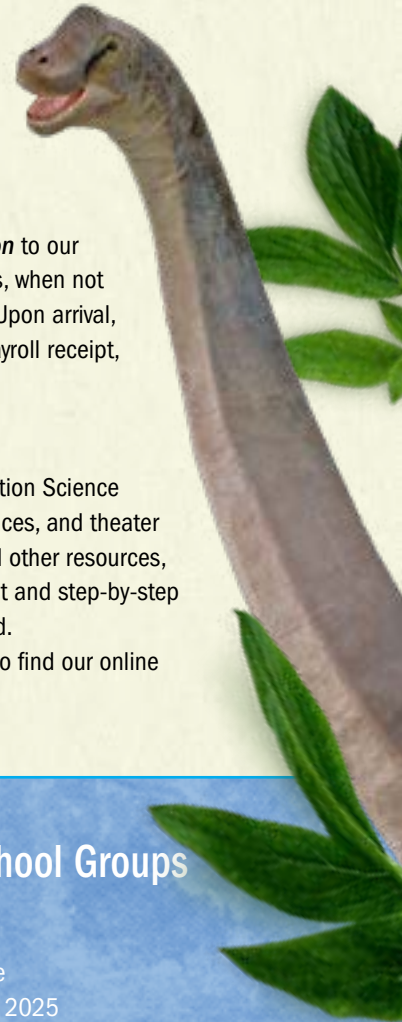
Capacity: 90 children plus adult chaperone

Time: Event will occur on a Friday in Spring 2025

Theme: Animal, Vegetable, Mineral

Campers will participate in hands-on workshops, view a planetarium show, view an IMAX movie, visit three floors of interactive exhibits, and spend a night at the museum. Also includes: snack, breakfast, and participation patch.

Call 410-545-5958 or email campin@marylandsciencecenter.org for more information and to begin your reservation.



Core Exhibits

Our Core Exhibits are the centerpiece of our educational initiatives and form the foundation for our programs.

Earth Science

Dinosaur Mysteries

Follow the trail of dinosaurs from dig site to field laboratory and beyond. Work together to unearth dinosaur bones at the dig site. Examine a 70 million-year-old dinosaur embryo. Get up close and personal with T.rex and over a dozen other full size dinosaurs throughout 10,000 square feet of soaring exhibit space, all in a hands-on environment.

Health and the Human Body

SciLab

Scientists in 3rd grade and up get to work in a real laboratory. Use genuine lab tools and protocols to investigate chemical and biological phenomena. One chaperone is required for every six students in this space. Each group is limited to one experiment. For a class enrichment experience, see page 11.

SciLab is presented by BD Integrated Diagnostic Solutions



You—The Inside Story

MSC's newest exhibit and its largest at over 12,000 square feet. This new exhibit is a hands-on exploration of a remarkable machine we know as the human body. You—The Inside Story takes a look at our senses, our unique traits and features, and challenges both the mind and muscles.

You- The Inside Story is presented by Johns Hopkins Medicine



Early Childhood

The Kids Room

The Kids Room is a sensory adventure for our early childhood visitors, from birth to eight years of age. Dive into waterplay, where hand pumps, fountains, dams, river channels, and nozzles keep hands and minds in motion. Create a building to withstand our earthquake table. Our youngest visitors from birth-24 months of age can explore Room to Grow, a special sensory-rich zone where the pace and activity level is scaled appropriately to infant and toddler development. In the Kids Room, children can experiment with cause and effect relationships, discover the forces of gravity and magnetism, explore the natural world, and exercise their imaginations.

The Kids Room is designed as a child-led discovery space. Adult chaperones must accompany and remain in the room with children at all times. School groups are encouraged to divide into age groups as follows, so that a safe and age appropriate experience takes place: birth to five years (Pre-K and K) and six to eight years (1st, 2nd, and 3rd grades). School Groups must have a reservation to visit the Kids Room. Please note there is an additional charge for this exhibit. See page 4.

Capacity: 50 students | Time: 50 minutes

Physics and Phenomena

Demonstration Stage

Science is a chilling, electrifying, bubbling experience on the Maryland Science Center's Demonstration Stage. Presentations are offered daily on a variety of topics.

Newton's Alley

Explore sight, sound, transfer of energy, magnetism, light, and simple machines in this hands-on physics exhibit. Pull yourself to the stars in a pulley chair, play beautiful music on a stringless laser harp, and learn about physical forces by competing in a giant lever tug-of-war. Newton's Alley is presented by Constellation.



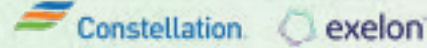
Core Exhibits, Continued

Physics and Phenomena

Power Up

From fuel to power generation to delivery—it takes a lot to make sure the light goes on when you throw that switch. Power Up looks at the people and power that make the electricity we use every day. You are the energy behind the human-powered generator and you take on the role of city planner as you try to figure out the power distribution grid to electrify a city without overloading the system.

Power Up is presented by Constellation and Exelon



Science & Main

Science meets Main Street at the intersection of hands-on learning. Explore how gears work at the bike shop. Learn about sound in the music store. Discover the properties of flight at the airport and lots more in this streetscape exhibit that will have you strolling through science.

Science Aglow

Science Aglow introduces the electromagnetic spectrum, with an emphasis on visible light and its interactions with mirrors, motion, and time. Glimpse the illusion of infinity as light bounces back and forth between mirrored surfaces. See your shadow like never before as it is temporarily captured on our glow-in-the-dark wall. Make a work of “light” art by sculpting light with prisms and lenses. Discover the concept of radiation as information, while exploring and experimenting with optics and the physics of light.

Math in Nature

In nature, math reveals itself in patterns. Ripples on a pond, wind across marsh grasses, birds flocking—the patterns, and their purpose, come down to math. Math in Nature also explores concepts like symmetry, camouflage, tessellation, fractals and other mathematical phenomena as they appear in the natural world.

The Shed

The Shed hosts drop-in activities that blend art, craft, science, engineering, and technology. Visitors might take on a problem-solving challenge, prototype an inventive object, or investigate the inner workings of a familiar item. The Shed rotates through different activity offerings throughout the year. Check our website to see what we will be doing on the day of your visit.

The Shed is presented by Chesapeake Employers' Insurance Company



Space and Aerospace Science

Davis Planetarium

Under the dome, the fully digital star theater turns daytime to night. Planetarium programs immerse audiences into the night and through an adventure in space. Program-related educational resources are provided to teachers on the day of your visit. Planetarium programs for school groups are by advance reservation only. Programs are offered at 10:30 and 11:30. Please note there is an additional charge. See page 4.

Life Beyond Earth

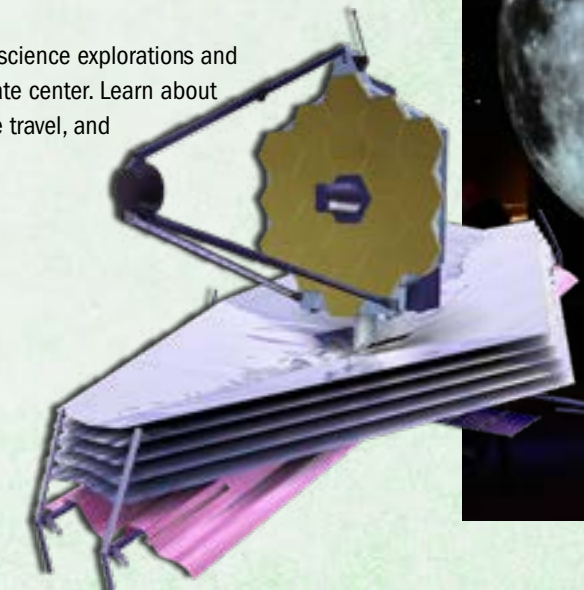
Are we alone in the universe? Is there other life on distant planets or moons? Explore new discoveries of extreme life on Earth and how they suggest where life might exist on planets and moons in our solar system. Follow the hunt for planets outside our solar system, including Earth-like worlds. Special tactile components provide accessibility to visitors with vision limitations, and Braille guides and large type guides are available for use in the exhibit.

Science On a Sphere

Science On a Sphere is a large visualization system that uses computers and video projectors to display scientific images and animations onto the outside of a sphere. The globe appears as if suspended in air and shows dynamic images of the atmosphere, oceans, and land of a planet.

SpaceLink

Witness the latest and greatest in space science explorations and findings in SpaceLink, a multimedia update center. Learn about the latest news from NASA, human space travel, and planetary exploration.



St. John Properties Imax Theater

IMAX films offer an immersive, larger-than-life exploration of key topics directly related to our core programs. Films available on the half hour from 10:30am to 1:30pm.

Add IMAX
to your
field trip!

A Beautiful Planet 3D

Grades: 3-12

Capacity: 330

Length: 45 minutes

- Gaze down on the wonders of Earth from the International Space Station for a breathtaking view of the planet
- Discover how humanity and natural powers have changed the world
- Explore life on the International Space Station and how research done in space pushes the boundaries of human knowledge

Beavers

Grades: PreK4-8

Capacity: 390

Length: 35 minutes

- Trek through the Canadian Rockies with a family of beavers, one of nature's greatest engineers
- Travel underwater and inside a beaver lodge for a rare look at these industrious creatures
- Watch them fell trees, construct their lodge, evade the forest's predators, and transform their environment

Backyard Wilderness 3D

Grades: 1-12

Capacity: 330

Length: 45 minutes

- View up-close footage of animals and discover a picture of life in the woodlands around your home
- Follow the cycle of the seasons as animals find food and raise their young
- Be inspired to get out and explore the world for all of the life that surrounds you

Coral Sea Adventure

Grades: 3-12

Capacity: 330

Length: 45 minutes

- Travel to the South Pacific and see the Coral Sea like never before
- Learn how coral reefs form and the vital role they play in the ocean ecosystem
- Discover the ways local conservationists are protecting and safeguarding endangered green sea turtles

Deep Sky

Grades: 4-12

Capacity: 330

Length: 40 minutes

- Learn how NASA's James Webb Space Telescope helps us search for exoplanets and provides clues about the beginning of the universe
- Hear from scientists and engineers on the international team that worked on the spacecraft for over a decade
- View breathtaking images of nebulas, star nurseries, distant galaxies, and more

Dream Big 3D

Grades: 3-12

Capacity: 330

Length: 40 minutes

- See engineering in a new light, as an exciting, creative, heroic field
- Watch today's young engineers as they create life-saving, world-altering marvels to make the world safer, more connected and more awe-inspiring
- Inspire students of all backgrounds to become the innovators of the 21st century

Expedition Chesapeake

Grades: 3-12

Capacity: 330

Length: 45 minutes

- Meet scientists who study the diverse species in the Chesapeake Bay watershed
- Travel from the headwaters of the Susquehanna River to the southern end of the bay and explore the human impacts on the watershed
- Learn about how the ecosystem is changing and the efforts to protect its future health

Extreme Weather 3D

Grades: 3-12

Capacity: 330

Length: 40 minutes

- Explore the interconnected system of weather that causes tornadoes, collapsing glaciers, and draught-driven wildfires
- Discover some of the ways the dynamic forces of weather are shaping planet Earth
- Follow researchers as they uncover information to help us adapt to our ever-changing weather

Flight of the Butterflies 3D

Grades: 2-12

Capacity: 330

Length: 45 minutes

- Follow the migration of the monarch butterfly from Mexico to Canada and a determined scientist's decades-long search to find their hidden overwintering sites
- Watch the amazing transformation from pupa to adult monarch
- See hundreds of millions of migrating monarchs in the remote mountains of central Mexico

Great Bear Rainforest

Grades: 3-12

Capacity: 330

Length: 45 minutes

- Explore one of the largest temperate rainforest in the world, located on Canada's Pacific coast
- Meet the rare, all-white spirit bear and learn how these animals share their home with grizzlies, wolves, sea otters, and humans
- Discover how the region's indigenous people are protecting the rainforest and passing knowledge from generation to the next

Maryland By Air

Grades: 4-12

Capacity: 330

Length: 45 minutes

- Take a ride in Silver Queen, a WWII-era biplane, with a local pilot as he flies across Maryland from the sandy beaches of the Eastern Shore to the ancient forests of the Blue Ridge Mountains
- Enjoy sweeping panoramic views of big cities and small towns while learning about Maryland's maritime and industrial history
- Explore the rivers, inlets, and waterways that make up the Chesapeake Bay watershed and glimpse several of the monuments, battlefields, and railways that can be found throughout the state

Secrets of the Sea 3D

Grades: 3-12

Capacity: 330

Length: 45 minutes

- Travel around the world to meet spectacular sea creatures from pygmy seahorses to giant blue whales
- Find out how marine species interact with each other and share their environment
- Learn about the importance of marine biodiversity and how humans affect the health of the ocean

Available starting
5/2/25



Enrichment Experiences

Enrichment Experiences are small group, classroom-style programs designed to enhance our field trips by offering in-depth content and more hands-on examples of learning by doing. Advance reservation is required. Programs available on the half hour from 10:30am to 1:30pm.

*In-depth
focused
learning*

Circuit Solutions

Grades: 3-5, 6-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Assemble a working simple circuit
- Test insulators and conductors to learn about the transfer of energy (grades 3-5)
- Experiment with polarity and create a parallel circuit to study the strength of electric forces (grades 6-8)

DNA Discovery

Grades: 4-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Observe and analyze their personal genetic traits
- Translate genetic code into traits to make a unique creature
- Extract plant DNA to see what it looks like up close and in person

Engineered by Design

Grades: 3-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Explore the engineering design process (imagine, plan, create, test, improve)
- Use this process to produce a solution for a given task

Radical Reactions

Grades: 1-2

Capacity: 30 students

Length: 45 minutes

Students will:

- Use real science tools to run experiments
- Learn the science behind various chemical reactions
- Explore simple chemistry

SciLab Enrichment Experience

Grades: 3-12

Capacity: 30 students

Length: 45 minutes

Students will:

- Work in groups of six scientists and rotate through self-guided experiment stations
- Follow lab procedures and protocols while observing chemical and biological phenomena
- Gain knowledge and experience using real laboratory equipment

Sensory Mystery

Grades: PreK4-1

Capacity: 30 students

Length: 45 minutes

Students will:

- Use senses to solve a mystery
- Discover how the brain is connected to other parts of the body by nerves
- Experiment to see how eyes, ears, skin, and noses function

Soap Bubble Math

Grades: 2-3

Capacity: 30 students

Length: 45 minutes

Students will:

- Answer a real world problem using math
- Gather and share data through group participation
- Design a question and procedure, guided by standards, to determine measurable information about soap bubbles

Stats Lab

Grades: 6-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Collect and analyze statistical data generated by toys and games
- Calculate frequencies and probabilities
- Compare predicted and observed outcomes

Sudsy Science

Grades: PreK-1

Capacity: 30 students

Length: 45 minutes

Students will:

- Experiment with various bubble wands and predict bubble shapes
- Combine materials to make a better bubble solution

Synthetic Biology

Grades: 9-12

Capacity: 30 students

Length: 45 minutes

Students will:

- Survey ways that humans alter DNA to benefit themselves
- Explore the intersection of technology and society
- Discuss ethical issues related to engineered organisms

What is That?

Grades: 4-8, 9-12

Capacity: 30 students

Length: 45 minutes

Students will:

- Use the scientific process to investigate mystery boxes
- Make hypotheses based on sensory perceptions and memories
- Defend their hypothesis using empirical evidence

Wind and Waves

Grades: 2-5, 6-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Determine what energy sources are derived from renewable and non-renewable resources and how their use affects the environment
- Create a model of an offshore wind and wave energy farm to maximize energy output then optimize your solution to tackle multiple challenges
- Create an efficient, cost effective design within a defined set of parameters (grades 6-8)

Ziplock Chemistry

Grades: 3-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Conduct chemical reaction experiments
- Uncover how matter and energy are transformed
- Determine which chemicals are responsible for an exothermic reaction



Planetarium

Planetarium programs for school groups are by advance reservation only.
Programs available at 10:30am and 11:30am. Select titles available at 1:30.



Take your class on a journey to space!

Live Programs

Beyond Your Backyard Sky

Grades: 6-12
Capacity: 140
Length: 45 minutes

- Explore the current sky and compare observations of stars and planets
- Launch from a backyard view of the sky into space and through the solar system and Milky Way galaxy
- See how the stars and planets of the nighttime sky fit into the universe as a whole

Cruise the Cosmos

Grades: 6-12
Capacity: 100
Length: 35 minutes

This program is only available at 1:30pm

- Fly through the solar system and beyond the galaxy to explore the universe
- See how the stars and planets in the night sky fit into our universe

Exploring Planets

Grades: 3-5
Capacity: 140
Length: 45 minutes

- Fly through the solar system to investigate features of planets and dwarf planets
- Explore characteristics of a planet
- Learn about current space missions

Live From the Sun

Grades: 5-12
Capacity: 140
Length: 45 minutes

This program is only available Thursdays and Fridays October – December and April – June

- See live images of the Sun direct from our rooftop observatory telescope, weather permitting
- Investigate sunspots and other changing solar features
- Learn about current space missions exploring the Sun

Seasons in the Sky

Grades: 5-7
Capacity: 140
Length: 45 minutes

- Tour seasonal constellations of the night sky
- Explore reasons for the seasons
- Learn how to use a starmap for backyard stargazing

Shapes in the Sky

Grades: 1-2
Capacity: 140
Length: 35 minutes

- Look for familiar shapes among the stars in the sky
- Imagine and create personal star patterns
- Observe patterns of the motion of stars and the Moon

Stories in the Stars

Grades: 3-8
Capacity: 140
Length: 45 minutes

- See how different or similar the night sky looks in a tour around the world
- Find out how people from all around the world look up at the same stars and see different pictures
- Explore the night sky and hear stories that bring new pictures to life

The Sky Tonight

Grades: 3-5
Capacity: 140
Length: 45 minutes

This program also available at 1:30 pm

- Observe current objects in the night sky
- Find and identify stars, planets, and phases of the Moon
- Learn how to use a starmap for backyard stargazing

Recorded Programs

Cosmic Colors

Grades: 4-12
Capacity: 140
Length: 35 minutes

- View the human eye up close and discover what structures allow us to see the visible light spectrum
- Discover the many reasons for color to find out why the sky is blue and why Mars is red
- Explore the invisible side of the electromagnetic spectrum and see how different wavelengths can be used in everyday life

Colors of the Solar System

Grades: PreK4 - 2
Capacity: 140
Length: 15 minutes

- Tour our solar system through crayon likenesses of the Sun, Moon, and planets
- Explore the solar system's primary members and what makes them special
- Make comparisons to different places in our solar system

Forward to the Moon

Grades: 3-12
Capacity: 140
Length: 35 minutes

- Learn about NASA's 21st century Artemis program
- Discover how we are planning towards a sustainable future in space
- Follow the exciting next step in our mission to explore the universe

One World One Sky: Big Bird's Adventure

Grades: PreK4-2
Capacity: 140
Length: 35 minutes

- Follow Sesame Street's Big Bird and Elmo as they explore the night sky
- Meet Hu Hu Zhu, a Muppet from the Chinese co-production of Sesame Street
- Take an imaginary trip to the Moon with Elmo and Hu Hu Zhu

Solar System Odyssey

Grades: 3-7
Capacity: 140
Length: 35 minutes

- Go on a futuristic journey through the solar system
- Set out on a mission to discover a new home to colonize
- Learn what makes a world an ideal habitat for life and what it would take for humans to live there

To Space and Back

Grades: 4-12
Capacity: 140
Length: 35 minutes

- Value human ingenuity and engineering as technologies that influence everyday life
- Realize how we benefit from technology developed for space
- Discover what we owe to human curiosity and the spirit of discovery

Unveiling the Invisible Universe

Grades: 6-12
Capacity: 140
Length: 35 minutes

- Discover the invisible side of the electromagnetic spectrum
- Learn about the technologies that astronomers use to investigate cosmic phenomena

We Are Aliens

Grades: 4-12
Capacity: 140
Length: 35 minutes

- Explore how the understanding of life on Earth guides the search for alien life elsewhere in the universe
- See how astronomers detect planets around other stars and how to identify which might be habitable
- Consider how different science disciplines work together to answer the question "Are we alone in the universe?"



Virtual Planetarium Programs for School Groups

In-Classroom Programs Delivered Through the Web. Turnkey science block content.

Exploring Planets

Grades: 3-5

Capacity: 30 students

Length: 45 minutes

Students will:

- Fly through the solar system to investigate features of planets and dwarf planets
- Explore characteristics of a planet
- Learn about current space missions

Shapes in the Sky

Grades: 1-2

Capacity: 30 students

Length: 35 minutes

Students will:

- Look for familiar shapes among the stars in the sky
- Imagine and create personal star patterns
- Observe patterns of the motion of stars and the Moon

The Sky Tonight

Grades: 3-5, 6-8

Capacity: 30 students

Length: 45 minutes

Students will:

- Observe seasonal constellations of the night sky
- Find and identify stars, planets, and phases of the Moon
- Learn how to use a starmap for backyard stargazing



Pricing and Availability

Planetarium programs	Fridays 12:30, 1:30, 2:30, 3:00	\$225
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All planetarium programs are presented live via Zoom. Alternate platforms may be available.

Payment is due one week in advance.



Observatory

Observatory programs for school groups are by advanced reservation only. Programs available Thursdays and Fridays October-December and April-June at 10:30am and 11:30am.

See the Sun

Grades: 3-12

Capacity: 25 people (includes students and chaperones)

Length: 45 minutes

- Observe the Sun through safe solar filters to reveal sunspots, flares, and prominences
- Explore the wavelengths of light with special attention to ultra-violet (UV) light
- Solar viewing as weather permits – telescope views of ground-based objects substituted under cloudy conditions

Family Science Night & Family Engineering Night

Bring the Maryland Science Center to your school

for an evening devoted to family fun, community-building, and learning. Family Science Night is a two-hour program designed to engage students and their families in STEAM activities. Family Engineering Night is available for an evening focused exclusively on design challenges and engineering concepts.

Your reservation includes: five hands-on science or engineering activities, five Maryland Science Center staff members (one for each activity), a promotional flyer, activity passport for students and twelve Maryland Science Center visitor vouchers for prizes. The fee for either science or engineering night is \$2,150. Pricing is based on schools within an hour of Baltimore City. Additional fee of \$250 may apply for schools more than 1 hour from the Maryland Science Center.

Call 410-545-5968 or email famscinight@marylandsciencecenter.org for more information and to begin your reservation.

Activity Pricing *Title 1 Parental Involvement Funding available upon booking.

Family Science Night or Family Engineering Night (5 activities)	\$2,150	Maximum 350 guests
Combination of FSN & FEN Activities (8 activities)	\$3,150	Maximum 500 guests
FSN Activities & FEN Activities (10 activities total)	\$3,650	Maximum 700 guests



Traveling Science Program



It's cool in your school!



Activity Pricing

Assembly Programs 30 or 45 minutes each Maximum 2 per day	250 participants \$625 1 presentation	250 to 500 participants \$1150 2 presentations, same title	250 to 500 participants \$1250 2 presentations, different titles
Classroom Programs 45 minutes each 2 program minimum, Maximum 4 per day	Up to 60 participants \$475 2 presentations	61 to 90 participants \$675 3 presentations	91 to 120 participants \$875 4 presentations

\$250 overnight fee may be charged for travel to a location more than 2.5 hours away.

*Evening Assembly Programs Available For Your Family Engagement Events.

Classroom Programs

Beyond Building

Grades: 3-5

Capacity: 30 students

Length: 45 minutes

Students will:

- Participate in engineering activities while engaging in the engineering design process
- Use engineering skills to create circuits and program robots
- Identify branches of engineering that are involved in creating real-world objects that are used everyday

Fairy Tale Engineering

Grades: K-2

Capacity: 30 students

Length: 45 minutes

Students will:

- Participate in three engineering activities inspired by classic fairy tale stories
- Act as the heroes of a story to overcome problems by engineering solutions
- Utilize the engineering design process

Solid Liquid Slime

Grades: 1-5

Capacity: 30 students

Length: 45 minutes

Students will:

- Examine the differences between solids and liquids
- Prepare samples of chemical slime
- Conduct an investigation to explore the properties of slime

Assembly Programs

Science Unscripted

Grades: 1-5

Capacity: 250 students

Length: 30 or 45 minutes

- Select science topic cards to compose a unique science show
- Experience a range of demonstrations including combustion reactions, electricity, and color changing chemistry

Let's Science That!

Grades: 1-5

Capacity: 250 students

Length: 30 or 45 minutes

- Requires the ability to turn the overhead lights off for part of the program
- Learn about the scientific process through physical and chemical changes
- Experience light reflection, light absorption, and shadow creation
- Observe the formation of new substances as a result of chemical reactions

New 30 minute versions of *Science Unscripted* and *Let's Science That* are available to suit your schedule!