Educator Resources  pg 2
At MiSci, we aim to inspire educators as well as students! That’s why we provide you with the tools you need to successfully engage your students on a field trip and in the classroom.

In the Classroom  pg 3-4
Bring the Michigan Science Center to you with our Traveling Science program featuring engaging science workshops and presentations, or with our ECHO distance learning program, bringing quality content to students across the state.

In the Museum  pg 5
During a trip to the Michigan Science Center, interact with 250+ hands-on exhibits that explore Space, Health, Physical Science, Engineering and more. All are included in group admission!

Must Sees  pg 6
With live stage shows, a 4D theater, and a planetarium, there’s always something new to discover and learn at MiSci.
Professional Learning
MiSci offers professional learning workshops for elementary, secondary, and out-of-school educators. Our workshops support the content and pedagogy described in the Next Generation Science Standards. Custom programs are available by request. Contact Education@Mi-Sci.org for more information.

Membership
Educators receive 20 percent off MiSci memberships with educator ID. Enjoy free or discounted shows and special exhibits, invites to members-only events, free or discounted admission to 300+ science centers around the world and more. Contact Membership@Mi-Sci.org to learn more.

Explore Store
Educators receive 10 percent off purchases in the MiSci Explore Store with educator ID. Stock up on great STEM gadgets and gear for your classroom.

Educator Extra
Subscribe to our monthly Educator Extra e-newsletter for MiSci news and special offers! Visit Mi-Sci.org/educators to sign up.

Virtual Tour
Did you know that MiSci has a Virtual Tour? Check out our exhibits from the comfort of your classroom to plan your field trip! Visit Mi-Sci.org/visit/family-groups/venue-rental.

Educator Guides
Our website is the place for Educator Guides, information on how programs and exhibits support Michigan Science Standards, lesson plans, chaperone guides, scavenger hunts and other STEM resources. If you can’t find what you’re looking for, send us an email at Education@Mi-Sci.org.

Sponsors of Science
The Sponsors of Science program supports up to 16,000 students each year for subsidized field trips for schools where 75 percent of all students receive free or reduced lunch. Visit Mi-Sci.org/SponsorsOfScience to apply.
Traveling Science Program

Programs start at $300

Science Festivals
Host a science festival during the day for the entire school or in the evening for a fun family engagement event. Select from a science variety pack, an energy focus, or space and physics!

Group Presentations
Assemblies are a great way to engage and educate groups of up to 250 students. All programs feature large scale science demonstrations such as: liquid nitrogen, fire tornadoes, Tesla coils and more!

Hands-on Workshops
MiSci educators visit classrooms to introduce or reinforce topics in your curriculum. Programs can accommodate up to 30 students and typically last 45 minutes.

Custom Programs
Custom Traveling Science Programs are available upon request. Contact our Outreach Team at Outreach@Mi-Sci.org or call 313.577.8400, ext. 474 for additional information and Traveling Science reservations.

View full list of programs at Mi-Sci.org/educators/traveling-science/.

www.Mi-Sci.org
Discover ECHO Distance Learning

Visit the Michigan Science Center and join us for a great learning experience without leaving your classroom! Our ECHO program brings live science demonstrations and activities directly to your students over the internet.

ECHO allows you and your students to participate in highly interactive and fun learning in real time. We created informative, entertaining programs focused around Michigan Science Standards. No special hardware is required to bring a virtual visit to your classroom. Connections are made with a computer, webcam, projector and high speed internet.

**ECHO Programs Include:**

- 45-minute interactive program
- Hands-on materials for 30 students shipped to your school
- Complimentary tech check prior to program

To reserve or ask questions about a program, contact our Distance Learning Coordinator at 313.577.8400, ext. 474 or by emailing ECHO@Mi-Sci.org. Reservations should be made at least four weeks in advance to ensure materials can be shipped to your location. You can also visit the Center for Interactive Learning and Collaboration to reserve any of our programs online.

View full list of programs at Mi-Sci.org/echo.
Motion
Explore the fundamental properties of matter and energy with circuits, electrical loads, magnetic fields, simple machines, light and more.

Space
Marvel at the wonders of the Universe as you explore the history of human space travel, learn about rocket technology, tour the galaxy, travel to the Sun and more. Plus, visit our new Sun, Earth, Universe exhibit!

Health and Wellness
Discover the importance of good nutrition and fitness, uncover the hidden factors that affect your health both now and in the future, and learn to make smart choices to improve your health.

Light and Sound
From the Lumenarium to the Seashell Pipes to the walk-in kaleidoscope, this is the gallery to experiment with sounds, colors, reflection, waves, and more.

Engineering
Become an engineer as you walk our 80-foot-long Mini Mac Bridge, travel our roundabout, work the U.S. Steel Fun Factory, and more.

STEM Playground
Our STEM Playground lets you tinker, build, fly, and play! Exercise your STEM skills to create and test paper airplanes, build with blocks, learn about angles and wind direction on a sail car table, and discover through play. Don’t miss our new marble wall addition!

Spark!Lab
Spark!Lab, from the Smithsonian, helps curious minds of all ages engage in the process of invention. Enjoy self-led invention challenges in an interactive space designed to support creative and collaborative thinking.

Digital Planetary Science
Learn about the rotation of the Earth, light pollution, our animal friends in the night sky, and the stories that go with them. Grades Pre-K - K.

Junior Astronomer
Explore the patterns in the cosmos including the phases of the Moon, reason for the seasons, and current constellations in the night sky. Grades 1 - 2.

Our Place in Space
This show begins with a look at the state of Michigan and gradually zooms out to reveal the size of the planets, the Sun, the Milky Way, and finally the Universe. Join us for a humbling look at the true size of our planet. Grades 6 - 8.

What’s Up? Your Guide to the Night Sky
Discover constellations, stars, and planets in the current season. Grades 3 - 5.

Sunstruck
Its energy has supported life on Earth for millennia, but may threaten our way of life. Travel to the future to discover our Sun’s connection to the Universe’s life cycle. Grades 9 - 12.

Michigan Science Standards
- Physical Science
- Life Science
- Earth & Space Science
- Engineering

EXHIBIT SPACES

IN THE MUSEUM

Kids Town
Kids Town features engaging activity areas in a child-scaled “town” just for guests ages 2 – 5, allowing them to develop social and motor skills while exploring basic science concepts. Check out our new Kids Town Market.

Planetary Science
Discover constellations, stars, and planets in the current season. Grades 3 - 5.

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www.Mi-Sci.org
**Theater Experiences**

**Michigan Science Standards**

- Physical Science
- Life Science
- Earth & Space Science
- Engineering

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**Science Stage Show**

**Grades PreK–12**

Join us for engaging educational presentations and demonstrations on a variety of topics including physics, astronomy, chemistry and biology. These shows are live and interactive and themes change on a regular basis.

*Shows last approximately 20 minutes.*

**DTE Energy Sparks Theater**

**Grades 1–12**

Enter our amazing Faraday cage and witness the incredible “hair-raising” Sparks Electricity Show as performers demonstrate how electricity affects the world in all forms through electromagnets, static electricity, plasma, and exploring different states of matter.

*Shows last approximately 20 minutes.*

**Dassault Systèmes Planetarium**

**Grades PreK–12**

Go inside a virtual universe as you fly past 9,000 stars, planets, galaxies and more. Our shows are led by a live presenter and are followed by question and answer sessions.

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**Toyota Engineering 4D Theater**

Join us in the renovated Toyota Engineering Theater for *Global Soundscapes*. With giant screen images, surround sound, and live presentation, *Global Soundscapes* takes you on an ear-opening journey into the science of sound and the emerging field of soundscape ecology.

Extreme Weather 4D is also available for groups in the Toyota Engineering Theater. Visit Mi-Sci.org/theaters for more information.

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**MUST SEES**

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## Offerings by Grade Level

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*Grade level recommendations are based upon current Michigan Science Standards and age appropriateness of the experience.*

### OUR VISION

To empower and enrich all children and all communities with science, technology, engineering and math (STEM).

### OUR MISSION

To inspire curious minds of all ages to discover, explore and appreciate STEM in a creative, dynamic learning environment.

The Michigan Science Center is a 501(c)(3) nonprofit organization.

www.Mi-Sci.org
GROUP PACKAGES

Discovery
*Designated for grades K–12, ages 5–18*

**Explore 1 - $9**

250+ Hands-On Exhibits
*Pick 1 Add-On Experience*

**Explore 2 - $12**

3+ hour visit suggested

250+ Hands-On Exhibits
*Pick 2 Add-On Experiences*

Tiny Tots
*Designated for PreK, ages 4–5*

**Explore 1 - $6**

250+ Hands-On Exhibits
Kids Town Experience

**Explore 2 - $9**

2+ hour visit suggested

250+ Hands-On Exhibits
*Pick 1 Add-On Experience*

**Add-On Options**

- Toyota Engineering 4D Theater
- Sparks Theater
- Live Science Stage Show
- Planetarium Show

**MiSci's Sponsors of Science program supports student admission costs for a limited number of school groups each year. Visit our website for more information at Mi-Sci.org/SponsorsofScience.**

**Group Rate Guidelines**

- Group rates apply to groups of 12 or more people.
- All PreK – K groups must maintain a 5:1 student to adult ratio.
- All grade 1 – 12 groups must maintain a 10:1 student to adult ratio.
- Adult chaperones (includes teachers) within a 10:1 ratio for grades 1 – 12 and 5:1 ratio for grades PreK - K receive $6 off group admission rates. Additional chaperones will pay the standard group rates (discount applies to educational groups only).
- Make reservations no later than three weeks in advance and pay 50 percent deposit no later than two weeks in advance.
- Please note, MiSci does not issue refunds. To view our entire refund policy, please visit our website.
Ready to Book Your Visit?

☐ Select Experience
Our programs are designed to support Michigan’s Science Standards. Visit the website for standards information and educator guides. MiSci does not provide guided tours.

☐ Request a Date
Complete the online Field Trip Reservation form on our website at Mi-Sci.org/fieldtrips at least three weeks in advance of your desired date. Late requests are subject to availability. Programming is subject to change.

☐ Recruit Chaperones
Recruit chaperones and provide each with a copy of the Chaperone Tips found on our website. Remember, all grade 1-12 groups must provide one adult chaperone for every 10 students and all grade PreK-K groups must provide one chaperone for every five students. If the required ratio is not met on the day of your visit, you will be charged a $15 per chaperone shortage fee.

☐ Secure Reservation
Confirmation of reservation date with invoice are sent via email. Reply to the confirmation email to make deposit arrangement and secure your reservation. A 50% percent deposit is required by the date indicated in the email in order to secure your reservation at the group rate. All payments are nonrefundable.

☐ Prep Students
Please ensure all chaperones and students have a clear understanding of MiSci expectations. Remind your students to leave backpacks at school, as they are not permitted in the building. MiSci will provide copies of your group itinerary for chaperones at group check in. Check Mi-Sci.org/educators/resources for additional resources.

☐ Pack Lunch
Limited space for group lunches is available on a pre-registered basis.

☐ Arrive Smoothly
For ease of check-in, be sure to arrive at the designated time. MiSci does not guarantee parking.

Cancellations are required via email as a reply to the confirmation email sent by Reservations@Mi-Sci.org.

Made more than 30 calendar days before date of visit:
• Reschedule with $25 fee.
• Deposit will be credited toward a future field trip occurring before June 30, 2020.

Made less than 30 calendar days before date of visit:
• Deposit is forfeited.

www.Mi-Sci.org