

GROUP PRESENTATIONS

Group presentations last between 35-45 minutes and can accommodate groups of up to 250 people!

KABOOMISTRY! 1st Grade to Adult

Our most popular program! Why do things explode? Learn about the relationships between pressure, temperature, and fuel to explain why things go KA-BOOM! We'll mix physics and chemistry to get some loud, flashy effects!

SCIENCE SPECTACTULAR Pre-K to Adult

Join us as we take a tour of science! In this exciting group presentation, we'll talk about various science concepts like electricity, air pressure, chemistry and more. This program features our favorite large scale science demonstrations.



VOLTS AND JOLTS 3rd Grade to Adult

Stay current on the shocking science behind electricity with an empowering educational show that receives a high-frequency of positive reviews. Discover how electricity is generated and how it affects the world in all forms through electromagnets, static electricity, plasma and more.

COOL IN YOUR SCHOOL (Seasonal) 1st Grade to Adult

Investigate how temperature relates to the movement of atoms and molecules in this exciting presentation. Utilizing liquid nitrogen (LN2) we'll see some "cool" effects on solids, liquids and gases!



Outreach: 313.577.8400 ext. 238 • Outreach@Mi-Sci.org

PROGRAMS AT A GLANCE

PROGRAMS	GRADE LEVELS											
	PK	K	1	2	3	4	5	6	7	8	HS	
CLASSROOM WORKSHOPS												
Magnets												
Fantastic Flight												
Lakes Everywhere												
States of Matter												
Sounds All Around												
"Current" Events												
Roller Coasters												
Wind Turbines												
Cow Eye Dissection												
Diving into DNA												
Finch Robotics												
Let it Glide												
STARLAB												
GROUP PRESENTATIONS												
Kaboomistry												
Science Spectacular												
Volts and Jolts												
Cool in your School												
SCIENCE FESTIVALS												
SCIENCEPALOOZA												
Nano Science												



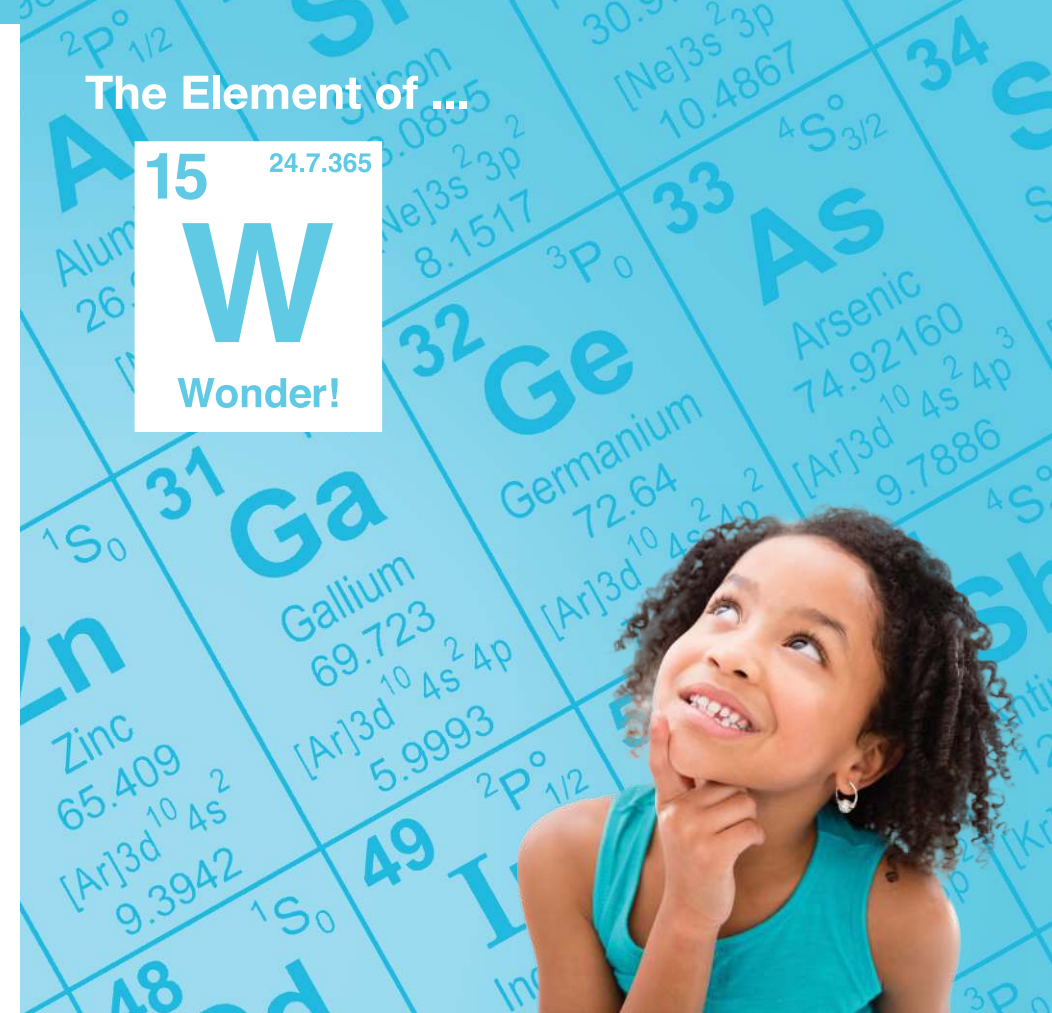
CUSTOM PROGRAMS

Don't see what you're looking for? Give us a call and we can put a program together especially for you!

www.Mi-Sci.org

The Element of ...

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W
Wonder!



TRAVELING SCIENCE



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The Michigan Science Center is a 501(c)(3) non-profit organization.

TRAVELING SCIENCE

Bring MiSci to you! Our Traveling Science educators bring engaging science workshops, group presentations and experiences to your school or event that will inspire learners to explore and appreciate science. Since opening in 2012, we have served more than 200,000 people throughout Michigan! Contact our Traveling Science team at Outreach@Mi-Sci.org, or call 313.577.8400, ext. 238 or through the inquiry form on our website.

We can schedule a REGIONAL TOUR

To save even more, partner with another school or library during the same day and you'll both receive a discount.

HANDS-ON WORKSHOPS

All hands-on workshops are 45 minutes in length, \$150 each (minimum of 2) and designed for up to 30 participants unless otherwise noted.

PHYSICAL SCIENCE

Magnets *Grades K-2*

Discover the force of magnetism as we push and pull using magnets of all shapes and sizes. Students will make objects defy gravity and see a magnet made by using electricity.

Sounds All Around *Grades 1-6*

Our sound activities and demonstrations will break music down to its elements. Waves and vibrations can be experienced in a simple yet fascinating way. We'll use tuning forks, singing rods, and other tools to demonstrate the science of sound.

"Current" Events *Grades 2-8*

What is electricity and how does it flow? Students will observe the power of electricity and learn about its simplest form. We'll then find out what happens when electricity meets a pickle!

Roller Coasters *Grades 3-8*

Explore the physics behind rollercoasters! We'll work together as a team to build a coaster in your classroom while discussing the different types of energy, acceleration, velocity, and more!

Wind Turbines *Grades 3-8*

Participants will be challenged to maximize the amount of electricity generated by a wind turbine of their own creation by changing the shape of its blades. Work as a team and use problem solving skills to help increase the turbine's performance.

States of Matter *Grades K-6*

Learn how to define the states of matter and experience substances changing from one state to another. Some substances blur the line between liquid and solid. We'll get our hands into some slimy stuff to decide which state it is.

Fantastic Flight *Grades K-4*

It's a Bird, It's a Plane, It's... Science! Learn about the science of flight as we check out Bernoulli's principle and investigate how different objects command the sky! Build and test your own flyer in one of our wind tubes.



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EARTH / SPACE SCIENCE

Lakes Everywhere *Grades 3-5*

There's no place like H.O.M.E.S. The Great Lakes are Michigan's literal defining feature that gives the region its cookie cutter shape. Explore this ecosystem and how it impacts our lives.

Let it Glide *Grades 6-12*

2 hour session — \$350 per session (\$50 waived if students supply their own shoebox)

Using the Engineering Design Process, students will develop and build a shoebox glider, and then improve it in terms of aircraft and wing materials, shapes, and structure, to produce the greatest glide slope possible. Program developed by NASA.

STARLAB *Grades PreK-Adult*

\$300 includes two shows; \$100 for each additional

The STARLAB is an inflatable, portable planetarium. During each session, our educator will give tours of the current night sky using the STARLAB's star projector, featuring bright stars, constellations, planets, and the moon. STARLAB programs can be customized to fit any grade level. (30-minute presentation)

LIFE SCIENCE

Diving Into DNA *Grades 6-8*

Participants will be able to describe what DNA is, where it's found and how it codes for traits. Everything living has DNA and students will be able to extract DNA from a variety of fruit.

Cow Eye Dissection *Grades 4-8*

\$175 per session (minimum 2)

Students will work in pairs to perform a cow eye dissection while under the direction of a trained MiSci staff member. We'll compare the cow eye to human eyes as we take a close look at its features and functions.

ROBOTICS



Finch Robotics *Grades 3-12*

90 minute session — \$325 per session

Explore the world of robotics while learning how to code. Finch Robots are programmed using "Snap!" software that varies in difficulty allowing us to adapt it to any experience level. Working in teams, students will utilize the accelerometer, light and obstacle sensors to help their robot find its way through various challenges. If desired, teachers can borrow the Finch kit!

www.Mi-Sci.org

SCIENCE FESTIVALS

Science festivals inspire children and adults to discover and appreciate the wonders of STEM. These interactive, hands-on programs allow participants to explore fundamental concepts relevant to our societies growing needs. While rotating through a series of 10 activities participants will prepare for a life full of science, technology, engineering, and math (STEM)!

You can host a science festival during the day for the entire school or in the evening for a fun family event! We supply all the materials for engaging hands-on activities and you supply volunteers to help teach. This experience enhances scientific inquiry skills and will encourage lifelong learning in groups of up to 400 participants.

Pricing: \$550 for up to 3 hours; \$850 for up to 7 hours



THEMES:

SCIENCEPALOOZA

Engage in an assortment of fun STEM activities on the topics of magnetism, electricity, ecology, forces, sound, chemistry and more! This program is perfect as a family night!

Nano Science

Think small. Think really small. This program features 10 hands-on activity stations that explore the behaviors of the world of nano science. Discover how nano technology is utilized in a variety of STEM fields.

SITE REQUIREMENTS

10 tables and chairs
12 volunteers (minimum)

Large open space
Electrical outlets

Please ask volunteers to arrive at least 45 minutes before event for training.



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