

FIELD TRIP & PROGRAM GUIDE 2024 - 2025






1 Discovery Way
 Toledo, Ohio 43604
 41° 39'N 83° 32'W
 419-244-2674
imaginationstationtoledo.org

Hours:
 Monday: Closed*
 Tuesday – Saturday: 10am – 5pm
 Sunday: Noon – 5pm
 *Visit us online for exceptions.

All curriculum is aligned to Ohio's Learning Standards. Find more information and resources in the Educators section of the Programs & Events menu online at imaginationstationtoledo.org.

Program Offerings by Grade Level		Pre K	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Demonstrations	Combustion					●	●	●	●	●	●	●	●		
	Matter Mayhem			●	●	●	●	●	●	●	●	●			
	Method to the Madness	●	●	●	●	●	●	●	●	●	●				
	Motion Mania			●	●	●	●	●	●	●	●	●	●		
	Sounds of Science	●	●	●	●	●	●	●	●	●	●	●	●		
	Extreme Science Demonstration		●	●	●	●	●	●	●	●	●	●	●	●	●
	Science Idol NEW			●	●	●	●	●	●	●	●	●	●	●	●
Workshops	3-D Print Designs NEW											●	●	●	●
	Automata NEW											●	●	●	●
	Chemistry					●	●	●	●	●	●				
	Circuit Accessories NEW											●	●	●	●
	Coding NEW							●	●	●	●				
	Cow Eye Dissection								●	●	●				
	Engineering Together				●	●	●	●	●	●	●				
	Exciting Energy		●	●	●	●	●								
	Fossils Rock REIMAGINED	●	●	●	●	●	●	●	●	●	●				
	Introduction to Circuits NEW							●	●	●	●				
	Laser Cut Accessories NEW							●	●	●	●				
	Linkage Mechanics NEW							●	●	●	●				
	Marble Machines		●	●	●	●	●	●	●	●	●	●	●	●	●
	Owl Pellet Dissection	●	●	●	●	●	●	●	●	●	●				
Protecting Our Waterways	●	●	●	●	●	●	●								
Robotics NEW												●	●	●	●
STARLAB®	The Many Stars in the Sky		●	●	●	●	●	●	●	●	●				
	Our Solar System			●	●	●	●	●	●	●	●	●	●		
	Sun, Earth and Lunar Patterns			●	●	●	●	●	●	●	●	●	●		
Science Festivals	Earth and Space Science	●	●	●	●	●	●	●	●	●	●	●	●		
	Forces and Motion	●	●	●	●	●	●	●	●	●	●	●	●		
	Structures	●	●	●	●	●	●	●	●	●	●	●	●		
	Tinkering NEW		●	●	●	●	●	●	●	●	●	●	●	●	●

 Tinkering Programming



ELLO EDUCATORS,



This year Imagination Station celebrates 15 fantastic years of being your source for STEAM (Science, Technology, Engineering, Arts and Math) education! We've had an incredible journey together, and we're excited to kick-off this year with exciting NEW and REIMAGINED field trip and outreach experiences for you and your students!

NEW Programs focused on the Tinkering Mindset

- All workshops feature new engineering challenges utilizing real tools and technology, including circuits, 3D printers and laser cutters.
- These programs emphasize exploration, iteration and discovery rather than just the final project.
- We can deliver these experiences at Imagination Station or in your classroom!

NEW Assembly Program, Science Idol

- This assembly-style program encourages students to collaborate as they tackle science-themed challenges.
- Your students will learn about important scientists and scientific concepts in a fun, game-show-esque setting.
- Students will have a blast cheering each other on!

Thank you for your incredible support

Two things have remained constant over the past 15 years - our admiration for all that YOU do and our passion for helping you provide high quality STEAM education to your students. Whether you visit us on a field trip, we come to you for an outreach program or you utilize our online resources, you are helping to make our 15th year truly unforgettable.

Thank you,

Lori Hauser
 Chief Executive Officer

Sloan Eberly Mann
 Chief Education Officer

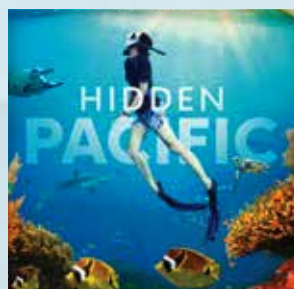
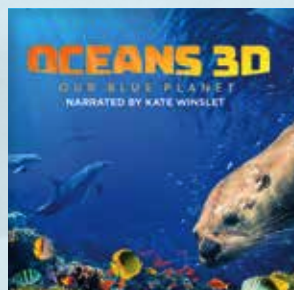
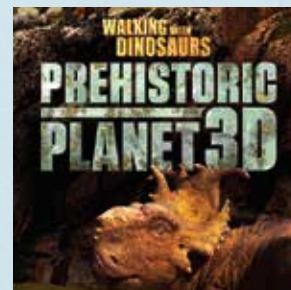
Jennifer Roe
 Director of Education



KeyBank Discovery Theater

FILMS

Travel the universe in a whole new way. Select a 3D movie, and prepare for an immersive experience unlike any other.



Educational guides available

NEW Traveling Exhibit
Included with Field Trip Admission



January 31 – April 27

Can you stop a puck traveling at 100 miles per hour? Do you know what makes ice slippery? Discover the science behind the fastest game on Earth. Technology, anatomy and physics highlight the advances of the sport over time and show that science is found everywhere in ice hockey.

Educational guide available



Developed by



FLYING FISH

with additional support from



2D film

Discovery Theater presented by:
KeyBank

HOCKEY: Faster Than Ever is an exhibition produced and toured internationally by Flying Fish in collaboration with the Montréal Science Centre and supported by the © NHL and the © NHLPA.

EARNING WORLDS

Whether you're exploring Earth's mysteries, mastering energy-saving secrets, engineering cool creations or discovering how to live your healthiest life, our Learning Worlds are bursting with interactive fun and learning.

Eat It Up!

Get your students' hearts pumping as they get in the action. This highly interactive exhibition focuses on nutrition and exercise and illustrates how the choices they make today can affect their bodies tomorrow. Eat Smart. Play Hard. Have Fun.

Energy Factory

Get a glimpse into the world of oil refining and solar power. Manipulate the energy output of a photo voltaic wall, compete against others using sunlight, program a robotic arm and command a kid-friendly oil refinery.

Grow U

Test your students' farm knowledge and celebrate the world of agriculture and farming. Become a contestant on FARM 101: Know It to Grow It! or explore several other interactive exhibits that offer both a local and global perspective on agriculture in the 21st century.

IDEA Lab

Inspire your students to light it up, send it soaring, take it apart, race it faster and create something great! Each experience is designed to foster critical 21st century skills like creativity, problem solving, persistence and innovation while promoting the idea that learning is fun. Add value to your experience by scheduling a Think Tank workshop for your students – see Workshops tabs.

Little KIDSPACE

Take your little adventurers (kindergarten age and younger) on a journey to learn about force, motion, math and life science when they hop aboard a fire truck, shop in the market and climb in their favorite tree house.

Mind Zone

Step into Mind Zone and discover how the mind processes, interprets and creates illusions and perceptions. Your students won't believe what they see! Don't miss the Distorted Gravity Room, it's one of our most popular exhibits.

Water Works

Explore the amazing science of water, nature's most powerful resource. Water Works features interactive water and erosion tables, a giant water vortex, and the thrilling Hurricane Chamber. Dive in and discover the wonders of water and weather!

Exhibit Guides

Our exhibit guides, developed with local K-12 educators, ensure students engage with key exhibits, learn new content and meet specific Ohio Learning Standards. Download and print them for free from our website.



Eat It Up! presented by:
 PROMEDICA

Energy Factory presented by:

cenovus
ENERGY

First Solar.

Grow U presented by:
 The Andersons

IDEA Lab presented by:
 Science Society

IDEA Lab supported by:

NAMS

Zenith Foundation



Special Attractions

Flight: The Sky's the Limit

Take your students' learning to new heights. Students can hop into the cockpit of a Saab 340 and test their aviation skills. While flying the friendly skies, they'll learn about the science of flight and many of the dynamic and varied STEAM careers in aviation.

Simulator Theater

OVER THE EDGE!

\$2 per person • 42" height requirement
Experience an exhilarating journey as you dodge snow-covered trees on a mountainside, balance on the edge of a cliff, outrun an avalanche and careen down an abandoned mine shaft.

Flight presented by:

TOLEDOJET ➔

Simulator Theater presented by:

TAYLOR AUTOMOTIVE FAMILY



LOCALLY OWNED. LOCALLY COMMITTED.

Extreme Science Stage DEMONSTRATIONS

Every day our Extreme Science Stage features interactive demonstrations that spark, bounce and explode so kids can explore fundamental science concepts with an exciting, EXTREME twist.

Combustion

Grades 3-10

Stand back for this explosive presentation. Students learn what creates combustion and the importance of fire safety. Your students have never seen a demonstration like this!

Matter Mayhem

Grades 1-9

Explore solids, liquids and gases like never before. Using liquid nitrogen, this demonstration gives a comprehensive overview of the phase changes. See water freeze before your eyes, witness the explosive power of evaporation and discover how "cool" condensation can be.

Method to the Madness

Grades Pre-K-8

Watch water defy gravity, be amazed as metal sparks and be awed by the incredible abilities of a liquid -320° F. This demonstration will teach your students about the importance of good observation and following the scientific method.

Motion Mania

Grades 1-10

Discover Newton's Three Laws of Motion at their most entertaining. Your students will have a blast as they learn about force, momentum and acceleration.

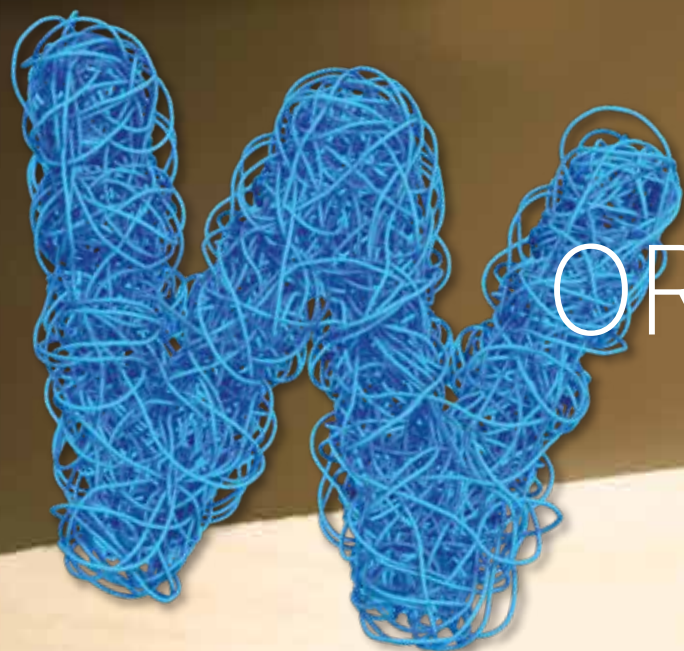
Sounds of Science

Grades Pre-K-10

Identify sound through some unconventional noisemakers. This demonstration makes cups squeak and rods scream. "See" sound as water jumps and lasers bounce—all in the name of science.



8 NEW WORKSHOPS



Elevate your students' learning with our workshops designed to ignite curiosity and spark creativity. Give them a new way to look at subjects they are already exploring, from crafting 3D printed objects to creating unique laser cut accessories.

Choose Your Workshop

Think Tank Workshop

Add this option on to your field trip for a full-on science center experience.

Workshop on Wheels

Our Tinkering Van, packed-full with tools and materials, brings the science center to your classroom.

We provide:

- Teacher curriculum guide
- Extension activities
- Hands-on materials for 30 students
- Content standards alignment for Ohio and Michigan

3-D Print Designs

Grades 9-12

Students will embark on an exciting journey into the world of 3D printing and develop cutting-edge fabrication skills. Engage in hands-on learning as students transform their ideas into tangible creations. Ignite students' creativity as they are inspired to prototype groundbreaking inventions, craft custom parts or produce stunning art in this dynamic workshop. Note: Due to the time necessary to print students' designs, they will be sent to the teacher after the workshop.

Wooden Mechanics

Grades 9-12

Unlock the secrets of motion with new tools and materials, and witness how movement transforms and transfers from one object to another! Elevate your students' observations and predictions as they create their own automata, using their insights to foresee dynamic changes in motion. Get ready for a hands-on adventure that merges creativity with scientific discovery.



Circuit Accessories

Grades 9-12

Unleash your students' creativity as they design a circuit with eye-catching decorative elements to convey their unique idea or message. Elevate their skills as they explore tools like wire cutters, wire strippers and soldering pens. Get ready to transform your students' knowledge and imagination into electrifying creations!

Coding

Grades 5-8

Students will delve into the world of coding as they tinker with sequences, events, loops and conditionals. They will develop and troubleshoot algorithms as they explore the many facets and abilities of a credit card sized computer!

Introduction to Circuits

Grades 5-8

Dive into the exciting world of circuits! Students will identify problems, test solutions and ask intriguing questions to explore how circuits work. Experiment with motors, lights and speakers to create various circuits, experiencing the thrill of electrical energy transforming into other forms.

Laser Cut Accessories

Grades 5-8

Release students' creativity and watch their hand-drawn designs come to life as they choose materials and fabricate them using a state-of-the-art laser cutting machine. Experience the magic of transforming light into precision cuts, and identify how lasers are used in everyday life.

Linkage Mechanics

Grades 5-8

Students will unlock their creativity as they discover the world of linkage mechanisms! In this thrilling workshop, students will identify linkages in their daily lives and use their newfound knowledge to build a creation that moves. As they explore the wonders of linkages, students will also get hands-on experience with the engineering design process.

Robotics

Grades 9-12

Get ready to dive into the thrilling world of computer science as your students code robots! They will learn drag-and-drop coding as they develop algorithms to program robots to transform their ideas into digital adventures.



*favorite
and reimagined*

WORKSHOPS



Chemistry

Grades 3-8

Chemistry has never been so interesting! Students will discover substances with strange and surprising properties. They will explore the differences between chemical and physical changes while experimenting with film canister rockets and endothermic and exothermic reactions.

Cow Eye Dissection

Grades 6-8

Take your students' understanding of biology to a new level by exploring the eye of a cow! Through the technique of dissection, they'll examine the wonders of the cow's interior eye. Walk away with an understanding of the difference between the vitreous humor and aqueous humor...and a new perspective on how we see the world around us.

Engineering Together

Grades 2-8

Students use collaboration and communication to work through an engineering challenge during a design and build. Your class will think like engineers while using the engineering design process and see the creative and dynamic side of this important field.

Exciting Energy

Grades K-4

Explore the exciting world of energy as students discover what conducts and what insulates, how sounds are created, the difference between kinetic and potential energy and so much more!

Fossils Rock! REIMAGINED

Grades Pre-K-8

Let your students travel back in time using scientific inquiry to discover the prehistoric world. During this workshop, students will become paleontologists and dig for fossils to learn how scientists study creatures that disappeared 65 million years ago. Preschool and Kindergarten students will explore the same content with an added literacy component.

Owl Pellet Dissection

Grades Pre-K-8

Be a part of science research and have a hoot as your students learn about owls and their environments. This workshop gets hands-on with the food web. Identify bones and collect data to learn more about owls, their diet and their digestive system.

Protecting Our Waterways

Grades Pre-K-5

Travel with Wally the Walleye on his journey down the Maumee River into Lake Erie. Explore why water is such a valuable resource and learn about ways we can reduce the impacts of water pollution.

Marble Machines

Grades K-12

Can you speed it up? Can you slow it down? Can you change its direction? Using everyday materials, students will engineer their own pathways for marbles and try to successfully meet our design parameters as they get hands-on with the engineering design process.



SCIENCE FESTIVALS

Imagination Station comes to your school, day or night! Students have the opportunity to be scientists, engineers and tinkerers with multiple hands-on activities related to a central theme.

We provide:

- Materials for interactive science and/or tinkering activities
- Teacher curriculum guide, including printable data recording pages
- Content standards alignment for Ohio and Michigan
- "What I Did Today" take-home sheets
- Extension activities
- In-school marketing materials and support
- Volunteer recruitment letter
- Trained educators who provide support throughout the event
- 30-minute training for teachers and adult volunteers prior to the start of the event

Your school provides:

- 15 committed adult volunteers to actively facilitate activities
- A large, open room, such as a cafeteria or gymnasium
- 12 tables
- 2 garbage bins
- Recycling bin

⚙️ Tinkering **NEW**

Grades K-12

Get ready to make and discover as we transform your space into a hub of creativity! Through immersive activities, students will have the opportunity to experience the latest in engineering, electronics, fabrication, coding and robotics. Each of these activities is designed to teach critical skills for the future and provide insight into what it's like to work in the STEAM fields. Students will experience state of the art technology like laser cutters and 3-D printers, empowering them to unleash their inner inventor as they create, build and experiment.

Please note:

The Tinkering Festival requires access to four outlets.

Earth and Space Science

Grades Pre-K-10

Students will have an out-of-this-world experience as they explore the solar system and beyond. They will discover how stars are born, learn facts about the objects in our solar system, model the moon's phases and explore how objects orbit each other. Then they will come back down to Earth to experiment with erosion, observe and classify rocks and so much more. They are sure to have a blast!

Forces and Motion

Grades Pre-K-10

Forces, motion, engineering...oh my! Students will explore Newton's Three Laws of Motion and the Engineering Design Process as they experiment with magnets, rockets and create a machine that can transport a marble.

Structures

Grades Pre-K-10

Students will become structural engineers as they explore how science and math combine to create amazing architecture. Students will be challenged to create Roman arches and earthquake resistant buildings, build bridges, follow blueprints and design domes, along with other activities that will have your students building big!





Science Idol

Grades K-12

This unique science competition-style demonstration will team up your students to compete in science-themed challenges, while introducing them to important scientists and science concepts. You and your students will have a blast cheering each other on in this game show-esque experience.

Extreme Science Demonstration

Grades Pre-K-12

This 45-minute assembly-style presentation explores fundamental science concepts with an exciting extreme twist! Water defies gravity, metal sparks and a liquid that is -320°F displays incredible abilities. This content is appropriate for a wide range of ages and grade levels.

ASSEMBLY PROGRAMS

Interested in a Virtual Extreme Science Demonstration?

Call us to learn more about this program.
419-244-2674 ext. 134



Your students will be amazed as they enter our portable planetarium. STARLAB® allows students to study the night sky without leaving school. Imagination Station offers three different program options for your students to enjoy.

Your school provides:

- A room large enough to accommodate the STARLAB®, which is 16 ft. in diameter and 11 ft. in height. (A gymnasium works best.)
- One adult to be present with the facilitator at all times in the STARLAB.®

Sun, Earth and Lunar Patterns

Grades Pre-K-8

Investigate the relationships between the Sun, Earth and Moon that cause the moon phases and solar eclipses. Students will marvel at how once in a lifetime events, like total solar eclipses, are part of predictable patterns.

The Many Stars in the Sky

Grades Pre-K-8

Explore how the star at the center of our solar system, the Sun, creates night and day. Then gaze with wonder at the other stars in our universe, along with some famous constellations and the myths they are based upon.

Our Solar System

Grades Pre-K-8

Discover the objects in our solar system and their motion. Then get a close up view of all of the planets!

Thank you
to our Adopt-a-School supporters and
our STEAM educational partners.

Premiere:



Martha Holden Jennings Foundation
C. O. Miniger Memorial Foundation

Presenting:



Toledo Refining Company

Catalyst:



France Stone Foundation

Elsie and Harry Baumker Charitable Foundation

Waite Brand Foundation



RESERVE TODAY!



Field Trips	Rates*
To reserve a field trip, call 419-244-2674 ext. 250	
Lucas County School Group Rate	\$7.00
Non-Lucas County School Group Rate	\$8.00
Certified Teachers with proper ID	FREE
Think Tank Workshops	\$7.00
Simulator Theater Ride	\$2.00
KeyBank Discovery Theater Film	\$5.50
Traveling Exhibit	FREE <i>with field trip admission</i>
Outreach Programs	Rates**
To reserve an outreach program, call 419-244-2674 ext. 134	
Science Festivals <i>up to 300 participants</i>	\$1,200
Workshop on Wheels	\$250/each or \$450/2 of the same
Professional Development Workshop	\$300/each or \$500/2 of the same
Assembly Program	\$375
STARLAB®	\$375
Virtual Extreme Science Demonstration	\$150

*Prices subject to change **+\$.67/mile outside Lucas County

How to qualify for the group rate:

- Include a minimum of 15 paying visitors (excluding educators)
- Make your reservation more than two weeks in advance with a 10% deposit
- Be prepared to make final payment at check-in
- Have at least one adult over 18 years of age for every seven kids in your group

Box lunches

Box lunches are available for field trips.
Orders must be placed and paid in full at least two weeks prior to your visit.

Adopt-A-School

Our Adopt-a-School program offers qualifying schools unable to afford a field trip or outreach program access to Imagination Station. This opportunity is made possible by the generous support of corporations and foundations. More than 60,000 students have benefited from this program. Interested in applying?

Visit imaginationstationtoledo.org/education-resources/adopt-a-school/



THANK YOU, EDUCATORS!

As your educational partner, we are here to support you. Call us anytime; we are full of great ideas to teach science in the classroom. Below are some of our educator resources. Just one way we say 'thank you' for all you do!

Professional Development Science, Engineering and Social Emotional Learning

This two-hour workshop is designed for current or future teachers and showcases how science and engineering are excellent ways to integrate social emotional learning (SEL) into your classroom. You will leave with ideas for how to implement two different engineering challenges, tips to integrate SEL and a greater knowledge of how the science center can be a resource for you.

Online Resources

We're not shy about sharing our knowledge – it's what community partners do! All of our demonstrations and activities have supplemental resources and curriculum for your classroom, and we've put it all online.



Educator Perks Free Admission

With proper identification, educators receive FREE admission to Imagination Station every day.

Discover.ed Digital Newsletter

Our newsletter lets educators know what is going on at Imagination Station and includes great hands-on activities for the classroom. Email smann@istscience.org to get this valuable resource in your inbox.

Science2GO

Look no further than our gift shop for science materials, kits and student incentives. Educators save 10% on all purchases with proper identification.

Membership

We offer special membership pricing for one of our favorite visitors – educators! With proper identification, receive 10% off an Imagination Station membership.



Nominate today



Imagination Station deeply values and appreciates OH Lottery's support of our education efforts and their work in recognizing outstanding students and educators in Ohio. OH Lottery's Partners in Education program recognizes Ohio students, teachers and schools for outstanding performance and achievement. Based on the nominations received, one teacher and one student from every region are recognized monthly, September through May, either as an Academic All Star or as a Teacher of the Month.

Nominations are accepted by the 10th of each month through an online submission form on the Ohio Lottery website. The Ohio Lottery has contributed more than \$30 billion to education since 1974.



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Prep4Ed

Imagination Station provides this FREE on-site workshop for all educators interested in learning more about the science center and how we can help empower your science lessons. Spend an hour with us and you will leave with several new tools for your science toolbox!

This year, we are offering after school sessions or weekend sessions.

Tuesday 4:15-5:15pm:

October 1
December 3
March 4
May 6

Saturday 10:00-11:00am:

November 2
January 4
February 1
April 5

Reservations are required. To reserve your space, visit imaginationstationtoledo.org/education/prep4ed/

