A field trip to the Museum of Science can complement and reinforce your curriculum while also demonstrating to your students that science is more than just a school subject—it’s a part of their everyday lives! We offer hands-on learning in a dynamic informal setting, highlighting concepts within the fields of science, technology, engineering, and mathematics (STEM).

The Museum is an ever-changing environment, always reflecting the most current science and technology while providing school groups with a supportive setting in which to practice Next Generation Science. Bring your students to visit Da Vinci – The Genius, a world-class temporary exhibition that brings to life the accomplishments of Leonardo as an inventor, artist, and scientist. Our stunning new permanent exhibit, the Yawkey Gallery on the Charles River, includes interactive engineering challenges that engage critical thinking and develop Next Generation Science practices. Supplement the Exhibit Halls experience with a rotating menu of compelling giant-screen films, Planetarium shows, and engaging live presentations—all highlighting a wide variety of disciplinary topics.

A trip to the Museum of Science is a memorable experience that provides context and excitement, making curriculum concepts relatable to all your learners. We strive to make our Museum a welcoming and accommodating place to engage and inspire every student. See you at the Museum!

Thank you,

Ioannis N. Miaoulis
President and Director, Museum of Science
Preparing for Your Field Trip

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STAY INFORMED WITH
E-NEWS FOR EDUCATORS

Sign up for our monthly educator e-newsletter to learn more about Museum field trips, special discounts, professional development opportunities, and classroom resources. To join, visit mos.org/educators.

Da Vinci
THE GENIUS
AN INSPIRATIONAL EXHIBITION

This interactive exhibition provides a fascinating insight into not only the mind of a genius, but also into the fundamental scientific and artistic principles that he discovered. Da Vinci – The Genius is an inspiration for people of all ages.

On Exhibit October 23 – February 26, 2017

More exhibit and pre-planning details: Page 16.

The Museum of Science gratefully acknowledges the support of our Premier Partners:
Preparing for Your Field Trip

Planning a great field trip is like planning any great adventure. Spending time to research options up front will help ensure your time at the Museum is as enjoyable and productive as it can be. To make a reservation, contact Science Central at 617-723-2500. Available daily 9:00 a.m. – 5:00 p.m.
Where to Begin

- Establish goals for your field trip before you begin planning.
- Visit mos.org/educators:
  - Sign up for our monthly E-News for Educators (see page 3).
  - Look through themed guides or create your own.
  - Click on the daily schedule at the top of the page.
- Consider all available options and times, from films and presentations to lunch schedules.
- Note which activities require separate admission, timed tickets, or advance registration.
- Become a member of the Teacher Partner Program for monthly E-News updates and access to educator resources.
- Make a reservation (see page 6).

Field Trip Planning Sessions and Resources

Consult with a Museum Educator

Need assistance planning or designing a field trip? Museum educators are available to assist you with updated exhibit information and new online educational resources. We offer a variety of ways to connect with Museum educators:

- Email questions to library@mos.org.
- Consult in person. Schedule an appointment to come in for a visit and a walk around the Exhibit Halls. Appointments for field trip planning sessions must be scheduled at least two weeks in advance by email at library@mos.org.

Fee: Free. Length: Approximately two hours.

A school group reservation will not actually be made at this time. All reservations must be made by calling Science Central at 617-723-2500.

Customize a Field Trip Guide

The Museum offers a number of suggested field trips that can help educators plan an exciting day of exploration for your students and provide a tool for guiding chaperones. You can also customize your own guide online, including only the activities you want to do! These guides will help you make the most out of your visit by highlighting exhibits, films, and presentations that relate to your curriculum, including specific questions and conversation starters that you create. Visit mos.org/field-trip-activity-sheets to get started.

Note: Some offerings may require separate tickets and advance reservations. Materials developed for this project are provided with the generous support of Liberty Mutual.

Tour Operators

- Tour operators who book school groups are eligible for school pricing and are subject to the same policies, but do not qualify for scholarships or $5 admission.
- Groups are also eligible for tour rates.
- For reservations, contact group sales: 617-723-2500, 617-589-0187 (fax), tops@mos.org.

Accessibility

The Museum is a place where everyone can participate equally in the excitement of science and technology. Let us know when making your reservation if your group requires any special accommodations or if you have accessibility questions.

- Planetarium shows and other live programs can be ASL interpreted (with a minimum of two weeks’ notice). Assistive listening devices are available for all shows and can be picked up at the Information Desk. Please contact accessibility@mos.org with questions about further accessibility needs, including tactile/Braille materials, show scripts, and captioning.
- Assistive listening, rear-window captioning, and audio description are available for most shows in the Mugar Omni Theater. Please confirm availability in advance for the show you plan to see.
- Wheelchairs are available, free of charge, at the Information Desk in the lobby.
- Many exhibits contain multisensory, interactive features and are accessible to a wide variety of visitors. For more details, please contact the accessibility coordinator at 617-589-3102 or accessibility@mos.org.
- For information about accessibility in the Museum: mos.org/accessibility. For questions or accommodation requests: 617-589-3102, accessibility@mos.org. Please request ASL interpreters at least two weeks in advance.

Parking

- There is no bus parking on Museum grounds except for drop-off and pickup. Buses may park at the Boston Autoport in Charlestown. For details and directions: mos.org/field-trips.
- Chaperones and teachers may park cars in the Museum garage and will receive a $5 flat rate. In order to receive this discount, have your parking ticket validated at the Information Desk in the main lobby. Please note that credit or debit cards are the only form of payment accepted for garage transactions.
Reservation Information

Making Reservations

- Book your field trip early! Programs fill to capacity, and there is a limit to daily school group admissions.
- Make reservations by phone. Call Science Central, open daily, 9:00 a.m. – 5:00 p.m.: 617-723-2500.
- Reserve at least 24 hours in advance: Exhibit Halls, Butterfly Garden, IMAX® films in the Mugar Omni Theater, Planetarium shows, and 4-D Theater.
- Reserve at least two weeks in advance: special programs and advance reservation presentations (see pages 12 – 13).
- School group rates and programs are NOT available during Massachusetts holidays and school vacation periods:
  - November 24 – 27, 2016
  - December 23, 2016 – January 2, 2017
  - February 18 – 26, 2017
  - April 14 – 23, 2017

Cancellations

Notify Science Central immediately: 617-723-2500, fieldtrips@mos.org. Missed reservations without notice prior to the visit date are subject to a non-cancellation fee.

Guidelines for Student Visits

Educators bringing students to the Museum of Science are expected to plan a schedule that focuses students’ attention and creates opportunities to connect learning in the Museum with learning in the classroom or community center. Educators and chaperones are expected to:
- Stay with pre-assigned chaperone-sized groups at all times, regardless of the students’ ages.
- Adhere to the code of conduct established by school systems and community centers. Behavior that is not acceptable at schools and community centers is not acceptable at the Museum of Science. Please note: The Museum is not responsible for lost, stolen, or damaged personal property.
- Act as facilitators, encourage inquiry, and assist students in navigating Exhibit Halls and programs safely and appropriately.
- Stay with students in venues such as the Mugar Omni Theater, Charles Hayden Planetarium, 4-D Theater, Butterfly Garden, Theater of Electricity, and live presentation areas.

Exhibit Halls Payment Rates

Payment rates shown are available to accredited public and private pre K – 12 schools.

<table>
<thead>
<tr>
<th>VENUE</th>
<th>Price per person</th>
</tr>
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<tbody>
<tr>
<td>Teachers</td>
<td>Free</td>
</tr>
<tr>
<td>Students</td>
<td>First Visit</td>
</tr>
<tr>
<td></td>
<td>Second Visit</td>
</tr>
<tr>
<td>September – August</td>
<td>$10.00</td>
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<tr>
<td></td>
<td>$5.00*</td>
</tr>
<tr>
<td>September, October, January</td>
<td>$5.00*</td>
</tr>
<tr>
<td>Chaperones</td>
<td>First Visit</td>
</tr>
<tr>
<td></td>
<td>Second Visit</td>
</tr>
<tr>
<td>September – August</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

*The $5 Exhibit Halls admission is available for schools with free and reduced lunch participation at or above 35% and/or schools with a population of economically disadvantaged students at or above 25%. Details: page 9.

Add-Ons

Payment rates shown for additional programs are added to the cost of Exhibit Halls admission.

<table>
<thead>
<tr>
<th>VENUE</th>
<th>Price per person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mugar Omni Theater (IMAX®)</td>
<td>Add $4.00</td>
</tr>
<tr>
<td>4-D Theater</td>
<td>Add $4.00</td>
</tr>
<tr>
<td>Charles Hayden Planetarium</td>
<td>Add $4.00</td>
</tr>
<tr>
<td>Butterfly Garden</td>
<td>Add $4.00</td>
</tr>
</tbody>
</table>

Venue Only (Exhibit Halls admission not included)

<table>
<thead>
<tr>
<th>VENUE</th>
<th>Price per person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planetarium Only</td>
<td>$6.00</td>
</tr>
<tr>
<td>Mugar Omni Theater Only</td>
<td>$6.00</td>
</tr>
</tbody>
</table>
Payment Methods

- Payment is required upon arrival.
- Payment must cover the full number of students, chaperones, and teachers in your reservation.

**Accepted**

- **Checks** School checks made payable to the Museum of Science. No personal checks. DO NOT MAIL. Bring check with you the day of your visit.
- **Cash** Large bills are appreciated.
- **Credit Cards** Visa, MasterCard, Discover, or American Express.
- **Purchase Orders** Arrange at least five days in advance with Science Central. Any amount above the approved purchase order amount must be paid in person with cash, school check, or credit card. Please include field trip visit date and Museum order number or purchase order.

**NOT Accepted**

- Family memberships, Museum overnight patches, free passes, or discount coupons.

Changing Your Group Size

- **IMPORTANT**: If your group size changes after you make your reservation, you must notify us by 4:00 p.m. the day before your visit. Contact Science Central: 617-723-2500, 617-589-0187 (fax), fieldtrips@mos.org.

- There are no refunds for dropped numbers on the day of your visit. Additional participants will be charged regular Exhibit Halls admission. Any additions are subject to availability and are not guaranteed entrance to the Mugar Omni Theater or other shows or programs.

Chaperones

Chaperones are our partners, working with us to help students experience the most productive and educational Museum visit possible.

- One chaperone per 10 students is required for grade levels pre K – 8.
- One chaperone per 15 students is required for grade levels 9 – 12.
- Chaperones are responsible for the safety of students and the exhibits they visit. Students must be accompanied by a chaperone at all times and must stay with their group.
- Chaperones must be at least 21 years old.
Lunch Options

It is highly recommended that you reserve a 30-minute time slot for lunch when making your field trip reservation. This applies whether or not you preorder meals or bring bag lunches. Space is limited in the café and reservations are available on a first come, first served basis. Depending upon your travel time, you may want to schedule your mealtime earlier or later in the day.

*Note: The Museum is not an allergy-free space.*

Food Vouchers

Available in any monetary amount from $5 to $15. Purchase them through Science Central: 617-723-2500.

School Group Meals

We recommend that you preorder meals, which are prepared in advance for your group and cost $6.25 per person. Choose from five entrées: individual cheese pizza (five-inch size), hamburger, turkey and cheese sandwich on whole wheat bread, ham and cheese sandwich on whole wheat bread, or chicken Caesar salad. Orders must be placed at least two business days before your scheduled field trip.

Bag LUNCHes

If you plan to eat in the Museum, it is highly advisable to reserve a lunch space and mealtime with Science Central. The Museum will store your lunches in bins until your scheduled time. All bag lunches must be picked up at the same time by all group members before entering the Riverview Café at your scheduled time.

Lunch Tips

- Schools are allotted 30 minutes in the school group area of the Riverview Café once reserved—plan for five minutes to pick up and distribute lunches, 20 minutes to eat, and five minutes to clean up and leave the café.
- Designate chaperones to help organize groups retrieving their lunches.
- Plan to meet a Museum school group team member by the entrance to the Green Wing, Level 1, five to ten minutes before your scheduled lunch time.
- If storing lunches without Museum bins, pack lunches in coolers, bags, and/or boxes by class; label containers with class and school names. Your lunches will be delivered to you by the entrance to the Green Wing, Level 1, at your scheduled lunch time. Please specify that you plan to do this at time of booking so we can be better prepared to expedite your visit.
- If all of your group members are purchasing lunch, you may sit anywhere available on the public side of the café, in the Red Wing Atrium, or outside when the weather permits. Consult with a school group team member about options for your group upon arrival at the Museum.

For more information or to sign up: mos.org/teacher-partners, 617-589-0174
$5 Field Trips in September, October, and January

Eligible schools can take advantage of special pricing for field trips available during these months. Exhibit Halls admission for students and chaperones is $5 per person. The $5 Exhibit Halls admission is available for schools with free and reduced lunch participation at or above 35% and/or schools with a population of economically disadvantaged students at or above 25%.

Pair your discounted Exhibit Halls admission with an IMAX® film in the Mugar Omni Theater, a Planetarium show, the Butterfly Garden, or the 4-D Theater for just $4 more. For details and related Museum offerings: mos.org/field-trips.

Multiple-Visit Rates

If you plan to return to the Museum with the same students, you may receive 50% off Exhibit Halls admission for the second visit. When making reservations, please inform Science Central that you will be visiting more than once with your group.

Scholarships

Reduced Exhibit Halls admission available for schools with free and reduced lunch participation at or above 35% and/or schools with a population of economically disadvantaged students at or above 25%. Funding requests should be processed while making a reservation with Science Central: 617-723-2500. Funding is limited and is distributed first come, first served.

Free Film Fridays in October and March

Thanks to generous support from Museum Premier Partner MathWorks, schools can enjoy a free Omni film on select Fridays in October and March! Groups that purchase Exhibit Halls admission on one of these days can also book one free Omni show per person. Tickets are first come, first served.
Exhibit and Field Trip Activities

A full roster of thought-provoking demonstrations, films, shows, drop-in activities, and special hands-on staffed exhibit areas provides great options for creating an inspiring field trip that meets your educational goals. Use pages 11 – 27 to select activities best suited for your Museum visit and lesson plan at mos.org/educators.
Live Presentations and Activities

Science, Technology, Engineering, and Mathematics (STEM) Programs

Choose from a variety of live shows scheduled daily that can support your curriculum goals. Get your students excited about STEM! Join Museum educators for fun, interactive stage shows that bring a fresh perspective to a variety of topics.

There are two types of live presentations: presentations on the daily schedule and advance school reservation shows. Advance school presentations must be reserved at least two weeks prior to your visit by calling 617-723-2500. These types of presentations are available October – June (see pages 12 – 13 for more information). Presentation schedule subject to change without notice.


Live Presentations: On the Daily Schedule

Schools and general audiences are invited to a number of live shows offered daily in the Exhibit Halls. For detailed program descriptions and curriculum connections, visit mos.org/live-presentations. For the daily schedule, visit mos.org/daily-schedule.

Live Animal

GRADES K – 12 Explore the adaptation, behavior, and ecology of animals—as well as the environments they live in—with the furry, feathered, and scaly residents of our Live Animal Care Center. Note that on Mondays only, we offer Live Animal Story Time, in which our younger visitors listen to a story before meeting its animal star.


Lightning!

GRADES 3 – 12 Explore lightning and storm safety as indoor bolts hurled by the world’s largest Van de Graaff generator spark insight into conductors, insulators, and the interaction of electricity, magnetism, and electric charge.


Super-Cold Science

GRADES 3 – 12 Investigate how heat and temperature relate to the movement of atoms and molecules, and experience their extreme, even bizarre, effect on solids, liquids, and gases.


Science Snapshot

GRADES 6 – 12 Take a look at the latest science and technology headlines and research advances to appreciate their impact on our lives.


MONDAY – FRIDAY SCHEDULE*

<table>
<thead>
<tr>
<th>Times</th>
<th>October – June</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 a.m.</td>
<td>Live Animal Story Time  Mondays</td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>Live Animal  Tuesday – Friday</td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td>Super-Cold Science</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Lightning!</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>Science Snapshot</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Live Animal</td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>Lightning!</td>
</tr>
</tbody>
</table>

*Schedule subject to change. Check mos.org for updates and added presentations in May and June.
Live Presentations: Advance Reservation

School groups of 25 or more participants may reserve our dynamic presentations below. Our education team is versatile in adapting and delivering school presentations that best fit your students’ grade level, helping to reinforce their classroom learning while on your visit to the Museum of Science! Visit mos.org/live-presentations to see curriculum connections based on the National Science Standards. Choose from a variety of programs below.

Program reservations are accepted October through June, Monday – Friday, first come, first served. To reserve a school presentation, call 617-723-2500. Reservations must be made at least two weeks in advance.

SHAPIRO FAMILY SCIENCE LIVE! STAGE

Location: Green Wing, Lower Level.

Weather Wonders

GRADES 3 – 8 Indoor wind, clouds, fog, and snow? Anything is possible when discovering how air, water, and temperature combine to cause weather changes. Elements of the weather are made before your eyes!

January – June, Monday – Friday; 12:30 p.m. (subject to availability). Reserve at least two weeks in advance.

GORDON CURRENT SCIENCE & TECHNOLOGY CENTER

Location: Blue Wing, Level 1.

Science and Technology in the News

GRADES 6 – 12 Join our on-stage anchor for a rapid-fire news report touching on the latest headlines in your favorite science subjects. Segments may include breaking news, in-depth stories, video clips, special guests, and reports from the field.

Monday – Friday; 10:30 a.m. (subject to availability). Reserve at least two weeks in advance.

Da Vinci: Engineering Through Imagination

GRADES 6 - 12 Today’s scientists and engineers apply many of the same methods that Leonardo da Vinci used 500 years ago—asking questions, developing models, and designing solutions. Discover how these classroom-relevant practices contribute to modern marvels of engineering.

Monday – Friday; 11:30 a.m. (subject to availability). Reserve at least two weeks in advance.
CAHNERS THEATER

Location: Blue Wing, Level 2.

Balance and Motion

GRADES 1 – 4 Marvel as a fearless presenter tips atop a giant contraption to investigate balance and how forces cause changes in motion.

Monday only; 10:30 or 11:30 a.m. (subject to availability). Reserve at least two weeks in advance.
Minimum: 25 participants. Length: 15 min. Capacity: 125

Animation in Action

GRADES 3 – 12 Explore our storytelling roots in this engaging 25-minute program that highlights science, technology, engineering, art, and mathematics (STEAM) concepts used in creating myriad forms of animation, past and present. Play with perception, light, and movement while creating effects that add life to the worlds we build on screen and beyond.

Tuesday only; 10:30 or 11:30 a.m. (subject to availability). Reserve at least two weeks in advance.

Incredible Energy!

GRADES 3 – 12 Featured elements from projectiles, explosions, and brain-racking pendulums incredibly illustrate energy’s many forms, its transfer, and how it relates to work and power.

Wednesday only; 10:30 or 11:30 a.m. (subject to availability). Reserve at least two weeks in advance.

Fantastic Forces

GRADES 3 – 12 Discover how a magician’s tablecloth, exploding newspaper, pencil-gun, bullwhip, or rocket car dramatically demonstrates relations between mass, velocity, acceleration, and force as described by Newton’s laws of motion.

Thursday and Friday only; 10:30 or 11:30 a.m. (subject to availability). Reserve at least two weeks in advance.
Live Presentations and Activities

Drop-In Activities

Stop by during program hours for these drop-in, hands-on activities. A typical stay for a school group is from 10 to 20 minutes. Due to capacity limits, groups of 20 or more may contact us for scheduling advice. Activities may not be reserved but, for some, the topic of the day can be requested, based on availability.

Fee: Free with Exhibit Halls admission. Programs not available during holidays or Massachusetts school vacation weeks. Schedule for weekdays only is subject to change without notice.

Details: mos.org/drop-in-activities.

Hands-On Laboratory

GRADES 2 – 12 The Hands-On Laboratory is a fun, interactive learning laboratory program that encourages visitors of all ages to explore a variety of topics in the sciences, including chemistry and biotechnology. Stop by for ongoing investigations and use many of the same tools and techniques as real scientists. Please check mos.org/drop-in-activities for an up-to-date schedule of program times and themes.

No reservations accepted. For scheduling advice for larger groups, contact ehi-requests@mos.org.

Available: Tuesday through Friday, October through May. Time: 10:30 a.m. – 12:30 p.m. Capacity: 15 – 20.

Below are some of the available Hands-On Laboratory themes:

• Archaeology
• Chemical Reactions
• Life in the Charles
• You Are What You Eat (Nutrition)

Design Challenges

GRADES 2 – 12 Dive into the engineering design cycle through a drop-in, hands-on 20-minute activity to design, build, and test a prototype solution to a given problem. School groups can request a specific Design Challenge for the day of their visit.

Email designchallenges@mos.org in advance to request a topic. Available: Daily. Time: 10:00 a.m. – 12:00 p.m. Capacity: 40.

Below are some of the Design Challenges now in rotation:

• Create a Claw
• Echo Base Bobsleds
• Ewok Escape
• Extreme Trampoline
• Ships Ahoy!
• Shipwrecked!
• Soaring Satellites
• Trophy Triathlon
NEW! Yawkey Gallery on the Charles River

This new permanent exhibit allows students to explore the connection between the engineered and natural worlds. As humans make changes to the world around them, they must take into consideration the associated environmental impacts.

In this exhibition you will:

• **Observe** the Charles River to learn more about the natural world and the effects of engineering decisions.

• **Engineer** solutions for problems encountered by scientists and engineers and test the impacts of your decisions.

• **Connect** with the natural and engineered systems present in your life.

Exhibit highlights include:

• **Live painted turtles, fish, and other species** that shape the river ecosystem.

• **River Table simulator** that allows students to evaluate solutions to engineering problems and witness the impacts of their decisions.

• **Opportunity to interpret real-time data** from the river just as scientists do to study its health.

• **Hands-on experiences** using the engineering design process inspiring students to build and test designs of river sensors, fish ladders, and bridges to reach different outcomes.

This new gallery has been made possible through a generous lead gift from the Yawkey Foundations, major gifts from the Institute of Museum and Library Services, Ann and Ed Kania, Payson and Jane Swaffield, and numerous other contributors.

Field Station in the Yawkey Gallery

**GRADES PRE K – 12** Join a Museum educator for a variety of hands-on investigations. The activity of the day may range from investigating the chemical and biological factors of river ecology to exploring the natural history of the Greater Boston area.

Fee: Free with Exhibit Halls admission. No reservations accepted. Activities available most school day mornings. Capacity: 5 – 8 (small groups can rotate through as other students explore the surrounding exhibit). Details: mos.org/daily-schedule.
Da Vinci – The Genius
October 23, 2016 – February 26, 2017
FREE with Exhibit Halls admission

This large-scale immersive exhibition allows students to research and discover a genius who defined the Renaissance Era—Leonardo da Vinci. The exhibit cuts across many curriculum areas and disciplines, and includes hands-on interactives and educational activities. Students will experience how Leonardo set out to understand his world through observation, experience, and discipline and used this approach to build knowledge, solve problems, invent, and create works of art, science, and engineering.

Major exhibit components include:

- **Replicas of da Vinci’s machine inventions**, many interactive, faithfully built by Italian artisans from his drawings and descriptions. These models bring to life devices da Vinci created for a wide variety of purposes, including flying, military engineering, aquatics, hydraulics, mechanics, physics, and instruments. His designs look extraordinarily similar to the modern machines created many centuries later.

- **Reproductions of da Vinci’s art** highlighting his innovative techniques of layering paint, using light, and gradation of tone as well as his knowledge of botany, geology, and the human form. The exhibit provides in-depth analysis of his most famous pieces, the *Mona Lisa* and *The Last Supper*, using engaging and educational technologies.

- **Reproductions of da Vinci’s detailed anatomical drawings**, including the *Vitruvian Man*. Da Vinci saw the body as a wonderful, compact machine capable of achieving a range of movements and he used drawing as a way to study human anatomy and physiology in amazing detail.

Da Vinci made the universe his field of study, passionately dedicating himself to the pursuit of knowledge in anatomy, mechanics, civil engineering, military, biology, mathematics, and physics. Education was one of the central platforms of his life and it is one of the primary objectives of this exhibit. By experiencing *Da Vinci – The Genius*, students will come away inspired and with an appreciation of arguably the greatest mind who has ever lived and everything he made possible!

This exhibition has been made available by Grande Exhibitions and Pascal Cotte, France.
Staffed Exhibit Spaces

Investigate special exhibit areas where Museum educators and volunteers interpret exhibits and foster discussions with learners of all ages.

Butterfly Garden

**GRADES PRE K – 12** Stroll among the free-flying residents of this warm conservatory featuring living butterflies from New England and around the globe. Notice the details—size, color, pattern, wing shape—that make each species unique. Look for behaviors such as feeding, courting, and basking. Check out the Emergence Box, which offers a window into butterfly and moth behavior that stirs the human imagination: the metamorphosis from earthbound caterpillar to winged adult.

Timed tickets required. **Fee:** Exhibit Halls admission + $4. Special school program available for grades K – 3. (See Butterfly Garden Experience below). **Details:** mos.org/exhibits.

Butterfly Garden Experience

**GRADES K – 3** Focusing on butterfly life cycles, characteristics, and classification, this program gives students a close-up experience with these amazing flying insects. Students participate in guided observations led by Museum educators.

Call Science Central to reserve: 617-723-2500. **Fee:** $4 with purchase of Exhibit Halls admission. Minimum: 10 students. Available: April – June, Wednesday – Thursday; 10:00, 10:30, and 11:00 a.m. Length: 30 min. Capacity: 30.

Discovery Center

**GRADES PRE K – 2** Students focus on natural science as they work together to assemble a mystery skeleton or observe small animals at close range in this exhibit especially designed for young learners. They can also explore a Discovery Box full of real objects and models, such as dinosaurs, skulls, or owls, with the aid of staff and volunteers.

Be sure to ask us about 10-to-15-minute science experiments or engineering challenges available for groups at the Experiment Station. Plan on visiting in small groups (no more than 10 students at a time) on a staggered schedule.

**Fee:** Free with Exhibit Halls admission. **Available:** Daily; 10:00 a.m. **Capacity:** Limited. **Details:** discoverycenter@mos.org, mos.org/discoverycenter.
Hall of Human Life

GRADES PRE K – 12 The Hall of Human Life is a permanent Museum exhibition dedicated to the science behind human biology, health, and behavior. Its core message is “humans are changing.”

This space helps visitors understand the environmental forces that work with our genes to make us who we are. Our activities and interactives intersect with many of the Next Generation Science Life Sciences Disciplinary Core Ideas. For example, your students can learn about structure and function by investigating and comparing skeletons in our cotton-top tamarin room, followed by heredity at our five DNA Walls, and conclude with growth and development in our Time environment.

Save your wristbands!
When your students visit the Hall of Human Life and put on a wristband, they become part of the exhibit by anonymously collecting and contributing their own data at our 15 Link Stations. Each one is labeled with a unique ID that your class can use to further explore their data and build on the Next Generation Science Practices of analyzing and interpreting data, constructing explanations, and engaging in argument from evidence. You can view your class’s data at mos.org/hhl.

Biogen Foundation Exploration Hub
Enhance your visit by engaging with our staff and volunteers at the Biogen Foundation Exploration Hub and participate in activities like investigating how their senses work together to help them identify kitchen chemicals such as salt, sugar, and cinnamon.

Provocative Questions
Discuss a current social-scientific question—one that science can inform but cannot answer—at Provocative Questions. The interactive encourages conversations where students think about how their experiences and values, along with evidence from science, influence their decision-making processes. This builds critical thinking and communication skills. The question changes periodically throughout the year.

Hall of Human Life educator guide available at mos.org/exhibityou.

Fee: Free with Exhibit Halls admission. Available: Daily; 9:00 a.m. Details: Activities vary daily, beginning at 10:00 a.m. To request a specific activity, please email hhl-requests@mos.org at least two weeks in advance.
High School Science Series (For Massachusetts Schools Only)
Students participate in hands-on activities, learn from local scientists and researchers, and listen to a keynote address to culminate the event. Make your curriculum come alive! Choose from the list below and visit mos.org/educators for more information.

Location: Cahners Theater. Available: Drop-In activities 9:30 a.m. – 12:00 p.m. Keynote Time: 11:00 a.m. except where otherwise noted. Capacity: 75 students per school per event. Funding is provided for Massachusetts schools in part by the Lowell Institute.

National Chemistry Day
Solving Mysteries Through Chemistry
October 20, 2016
GRADES 9 – 12 Explore the chemistry and biology of fibers and forensics! This annual event includes a stimulating talk in Cahners Theater and hands-on chemistry and biology activities throughout the Museum.

Climate Change in Massachusetts
November 17, 2016
GRADES 9 – 12 Climate change is expected to affect many coastal cities and communities, including Boston. Students will learn the science behind climate change and discuss with peers how they can take action around this challenge. In addition to the 11:00 a.m. presentation, groups will also participate in a shared hands-on activity.

Computer Science
December 9, 2016
GRADES 9 – 12 How do STEM professionals put computer science to use? Hear from local scientists about how they use mathematics and computational thinking in their everyday lives. Explore these concepts through hands-on activities throughout the Museum and a presentation.

Space: Exploring the Cosmos
January 20, 2017
GRADES 9 – 12 Experience how unmanned space flight is pushing the frontiers of human exploration to the very edges of the universe. In addition to the 10:30 a.m. keynote, this event includes a presentation in the Charles Hayden Planetarium and hands-on activities throughout the Museum.

Funding for this event is provided for Massachusetts schools in part by the Charles Hayden Foundation.

Da Vinci: Visionary Engineering
February 9, 2017
GRADES 9 – 12 Learn about the fundamental scientific and artistic principles discovered by Leonardo da Vinci and how they continue to inspire modern engineering. This event features a keynote speaker, hands-on activities throughout the Museum, and exploration of the Da Vinci – The Genius exhibition.

Health Fair
March 17, 2017
GRADES 9 – 12 Learn and have conversations about the latest neuroscience research from scientists and healthcare professionals who specialize in this field. This special event features guest speakers, hands-on activities throughout the Museum, and exploration of the Hall of Human Life.

The Science of Food
April 6, 2017
GRADES 9 – 12 Meet experts in sustainable food growth, especially in urban areas, and learn the science of how people taste and smell food. This event features guest speakers, hands-on activities throughout the Museum, and exploration of the Chocolate exhibition.
Additional Opportunities

Student Archaeology Fair
October 14, 2016

GRADES 3 - 12 Experience the excitement of archaeology with dozens of hands-on activities, live presentations, and special programs. Learn about the life of a Roman soldier, underwater shipwrecks, ancient spearthrowers, Native American technology, and much more.

Co-sponsored by the Archaeological Institute of America.

The Amazing Nano Brothers Juggling Show

GRADES 4 - 8 Virtuoso jugglers Dan and Joel perform a humorous introduction to the mysteries of matter—including atoms, molecules, and nanotechnology.

Length: 40 min. Note: Special advance bookings may be available by request at the Museum or at local schools. Contact nano@mos.org for pricing and availability.

Developed through funding from the National Science Foundation and the Massachusetts Technology Collaborative and tied to National Science Education standards and the Massachusetts Science & Technology Educational Framework.

THEMED OFFERINGS

The Museum hosts a series of themed offerings throughout the year. Each event is focused on a specific science topic and includes activities, presentations, guest appearances by professionals from the field, and other educational and exciting features.

Fee: Free with Exhibit Halls admission.

- Wild Weather Weekend
  September 17 – 18, 2016

- Archaeology Fair
  October 14 – 15, 2016

- Women & Girls in STEM
  November 4 – 5, 2016

- Computer Science Weekend
  December 10 – 11, 2016

- National Engineers Week
  February 19 – 25, 2017

- Health Fair
  March 17 – 18, 2017
A Field Trip Your Students Won’t Forget!

**GRADES 1 - 7** Spend the night with your students at the Museum and enjoy hands-on science activities, science demonstrations, a late-night *Lightning!* show, Planetarium show, AND an IMAX® film. Students explore the Museum and even get a chance to sleep under a dinosaur or a giant grasshopper!

Fee: $50 per participant. Advance registration required: 617-589-0350, mos.org/overnights.
Minimum: 10 people.

Curriculum Connections

An overnight field trip is a great way to learn about and make connections across a wide range of science, technology, engineering, and math topics. Many overnight activities are organized using Next Generation Science and the current Massachusetts Science and Technology/Engineering Curriculum Framework. Most offerings explore multiple science and engineering practices and content topics. Special workshop topic and activity requests are accommodated whenever possible.

2016 – 2017 Dates for School Groups

<table>
<thead>
<tr>
<th>Date 1</th>
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<tbody>
<tr>
<td>Thursday, October 20, 2016</td>
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<td>Friday, June 9, 2017</td>
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<td>Thursday, May 4, 2017</td>
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</tbody>
</table>

Ask about opportunities for funding on overnight dates!

Please visit mos.org/overnights for current availability.

Sample Schedule

**Evening**

- **5:00 – 6:30 p.m.** Arrival and registration
- **6:45 p.m.** Opening welcome
- **8:15 p.m.** Hands-on activities
- **9:15 p.m.** Snack, activities, explore Museum
- **10:30 p.m.** Lightning! presentation*
- **11:00 p.m.** Set up sleeping space

**Midnight**

Lights out

**Morning**

- **6:45 a.m.** Wake up
- **7:00 a.m.** Breakfast
- **8:00 a.m.** Planetarium show*
- **9:00 a.m.** Explore Museum
- **10:00 a.m.** IMAX film*
- **11:00 a.m.** Overnight officially ends

*If any Museum venue is closed, an alternative activity will be provided.
Films You Can Feel

Experience the visually captivating high-definition capabilities of a 3-D film with in-theater special effects such as wind and snow. This multisensory, immersive attraction is a treat for all your senses!

Fee: Exhibit Halls admission + $4. Location: Blue Wing, Level 2. Length: Approximately 15 min.
Capacity: 98. Days, times, additional shows: mos.org/4D. Schedule subject to change without notice. Reserve tickets at least 24 hours in advance.

SpongeBob SquarePants 4-D: The Great Jelly Rescue

GRADES PRE K – 2 Join SpongeBob, Patrick, and Sandy on a wildly hilarious 4-D adventure to rescue the Jellyfish of Jellyfish Fields from Plankton’s evil clutches. With eye-catching 4-D effects, guests will surf through the electrifying swarm of Jellies, get dragged into the bowels of the Flying Dutchman’s ghost ship, and even feel the rumble of the cannon as our heroes are launched on their hysterical odyssey. Hold on for the experience’s explosive finale, and leave the theater knowing exactly why SpongeBob is oceans above the rest!

© 2016 Viacom International Inc. All Rights Reserved. SpongeBob SquarePants created by Stephen Hillenburg.

Wild Survivors: Animals in 4-D

GRADES 1 – 12 In this all-new 4-D experience, Wild Survivors: Animals in 4-D takes a never-before-seen look at the ingenious tactics animals have developed to survive and thrive in a danger-filled world. This 4-D experience captures jaw-dropping sequences in digital 3-D with added special effects that bring you right into the action. Don’t miss it!

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The Polar Express 4-D Experience®

GRADES PRE K – 12 Go on an extraordinary 4-D adventure this holiday season on THE POLAR EXPRESS! When a doubting young boy takes an extraordinary train ride to the North Pole, he embarks on a journey of self-discovery that shows him that the wonder of life never fades for those who believe. The Polar Express 4-D Experience® is based on the inspiring and beloved Caldecott Medal children’s book by Chris Van Allsburg.

THE POLAR EXPRESS and all related characters and elements © & ™ Warner Bros. Entertainment Inc. (s16).

Visit mos.org for information on an upcoming 2017 4-D film.
IMAX® Films

New England’s only five-story-tall, 180° IMAX® Dome screen wraps audiences in larger-than-life images of flora, fauna, and faraway places. A state-of-the-art digital sound system completes the immersion effect. Rear window captioning, show scripts, and special soundtracks are available for select shows. Educator guides are available for most films (downloadable from mos.org).

Fee: $6 or $4 if added to Exhibit Halls admission. Location: Red Wing, Level 1. Length: 50 min. Capacity: 314. Days, times, additional shows: mos.org/imax. Schedule subject to change without notice. Reserve tickets at least 24 hours in advance.

Extreme Weather

GRADES 3 – 12 Storm chaser and award-winning giant screen filmmaker Sean Casey takes you where few have gone before—to the edge of a 300-foot-tall calving glacier in Alaska, on the front lines of massive wildfires in the West, and directly in the path of deadly, yet mesmerizing, tornadoes in the plains. Also, follow the men and women on the forefront of climate research and the everyday heroes who put their lives on the line to help us understand and adapt to our ever-changing weather.

Available: Opens October 15.

Dolphins

GRADES 3 – 12 MacGillivray Freeman’s Dolphins takes you on a captivating IMAX® quest to observe the lives of these amazing mammals. Join marine biologists on an underwater adventure in the dazzling coral reefs of the Bahamas and wind-swept seas of Patagonia, where you’ll get an uncommon look at the incredible world of Atlantic spotted dolphins, acrobatic dusky dolphins, and the familiar bottlenose dolphin. From rarely seen fish-herding behavior to a close-up look at communication activities, Dolphins offers a fascinating perspective on the lives of dolphins and their remarkable intelligence.


Dolphins is a MacGillivray Freeman film produced in association with the National Wildlife Federation.

National Parks Adventure

GRADES 3 – 12 MacGillivray Freeman’s National Parks Adventure takes you on the ultimate IMAX® off-trail adventure into the nation’s awe-inspiring great outdoors and untamed wilderness. Spectacularly wild and beautiful places like Yosemite, Yellowstone, the Everglades, the Redwoods, Arches, and Canyonlands are illuminated as never before with immersive giant-screen cinematography, revealing a tapestry of natural wonders that will inspire the adventurer in us all.


A MacGillivray Freeman film produced in association with Brand USA. Presented by Expedia, Inc. and Subaru of America, Inc. Major support from the Giant Dome Theater Consortium.
Amazing Journeys
Follow the life-and-death dramas of five of the most incredible animal migrations—monarch butterflies, migratory birds, gray whales, red crabs, and zebras.

Dinosaurs Alive!
Witness the century-long evolution of paleontology, from the first discovery of fossilized dinosaur eggs in Mongolia’s Gobi desert to the most recent finds in the American Southwest.

Forces of Nature
Witness the awesome power of nature’s most spectacular events as you meet three scientists studying tornadoes, volcanoes, and earthquakes.

Humpback Whales
An extraordinary journey into the hidden world of nature's most awe-inspiring marine mammal takes you to Alaska, Hawaii, and the Kingdom of Tonga for a close-up look at how these whales communicate, sing, feed, play, and care for their young.

Lewis and Clark: Great Journey West
Trace the 28-month, 8,000-mile search for a northwest passage. See the danger and beauty of the unknown West as it unfolded before the eyes of Lewis and Clark over two hundred years ago.

Shackleton’s Antarctic Adventure
NOVA film crews trace Sir Ernest Shackleton’s failed Antarctic expedition—a journey that became one of the most triumphant survival stories of all time.

Special School IMAX Shows
We have set aside a special time just for schools! Choose the 11:00 a.m. IMAX showing to see one of our special school IMAX shows pre-selected to support your science and social studies curriculum.
Films will rotate each week. Check mos.org/imax for schedule. Films and schedule subject to change without notice.
Out of This World

Inspire your students with the breathtaking awe of the universe! The Planetarium uses state-of-the-art systems to illuminate Earth science, astronomy, and space exploration. Watch trailers, find educator guides, and discover more at mos.org/planetarium.

Fee: $6 or $4 if added to Exhibit Halls admission. Location: Red Wing, Level 1. Length: 35 – 45 minutes. Capacity: 209. Days, times, additional shows: mos.org/planetarium. Schedule subject to change without notice. Reserve tickets at least 24 hours in advance.

FOR SCHOOLS ONLY

These interactive adventures feature live presenters who can fly school groups anywhere in the universe, revealing astronomical wonders and the intriguing science behind them. Audiences are encouraged to ask questions along their journey.

Explore the Solar System

GRADES PRE K – 5 Blast off of Earth and soar through space to discover the exciting sights of our solar system. Students will fly by the Moon and the planets, and figure out the mystery of what happened to Pluto.

Time: 10:30 a.m., Monday – Friday. Educator guide available.

Explore the Galaxy

GRADES 6 – 12 Our solar system is only the first stop on a journey to even more distant and mind-boggling sights. Leave Earth behind and fly to the very edges of the Milky Way galaxy in this exploration of our place in space.

Time: 11:30 a.m., Monday – Friday. Educator guide available.
FOR ALL AUDIENCES

These shows are available outside of school showtimes, to both schools and the general public. Check our schedule on mos.org/planetarium to help plan your visit.

Magic Tree House: Space Mission

**GRADES 2 – 5** Travel with brother-and-sister duo Jack and Annie in their Magic Tree House®—as they proceed to answer questions left for them in a mysterious note signed “–M.” They first wish themselves to an observatory where they meet an astronomer who helps them answer the first few questions on the note. With the help of the astronomer, the Internet, an astronaut, books, and the note’s author, Jack and Annie are then taken on a wondrous journey of adventure and learning. Educator guide available. Please note this show only has a capacity of 159.

Undiscovered Worlds: The Search Beyond Our Sun

**GRADES 5 – 12** Through the discovery of exoplanets—the hundreds of planets that have been found orbiting stars beyond the Sun—we have learned that our solar system is not alone in the universe, and we have had to redefine our understanding of planets and solar systems. With new achievements like the Kepler Telescope and rapidly improving technology, the discovery of exoplanets puts us one step closer to the possibility of finding an Earth-like world. How will this change how we view our place in the universe? Educator guide available. Produced by the Museum of Science.

Moons: Worlds of Mystery

**GRADES 3 – 12** Take a journey through our solar system and explore the remarkable diversity—and surprising might—of moons! From volcanoes and geysers to ice-covered oceans and methane rain, these natural satellites have some spectacular features, and many even exert a surprising influence on their planetary partners. Learn what these celestial bodies reveal about the history and workings of our solar system. Educator guide available. Produced by the Museum of Science.
A visit to the Museum is just one way we can help you educate your students. For teachers who wish to grow professionally and enhance their instructional practices, we offer special programs and events throughout the year, as well as curriculum materials. The Museum can also come to you through our Traveling Programs, which visit schools throughout New England every day.
Professional Development Opportunities

As partners in science, technology, and engineering education, we provide ongoing programs for educators as adult learners and as teaching professionals. These free programs highlight various areas of instructional content, and model the science and engineering practices we want students to embody.

Ongoing programs include:

- **Short Workshops**: Half-day programs use Museum resources to engage teachers in science and engineering topics and encourage participants to explore new content and teaching ideas.
- **Team Professional Days**: Teams of educators are encouraged to schedule professional development time in the ERC. Half- or full-day sessions are available at no cost. Group size, date, and program focus are negotiable. Teams have access to Museum print and media resources, exhibits, educational programs, and talented staff in support of their learning goals.

To learn more about our professional development offerings and to view our upcoming workshops, visit mos.org/professional-development.

Educator Support Services

The Educator Resource Center (ERC) supports K – 12 teachers by leveraging the affordances of the entire Museum to create powerful enrichment opportunities. Working with educators individually and in collaborative teams, we promote lifelong learning and a renewed sense of professional enthusiasm. The center provides a range of services for teachers to foster their professional growth and support their classroom teaching. We encourage educators to schedule time in the ERC for resource review and individual or small-group professional development opportunities. For drop-in hours and more information about our offerings: mos.org/educator-resource-center.

Location: Green Wing, Level 3. Contact: 617-589-0174, library@mos.org.

Visiting the Educator Resource Center

Please note that the library is closed to the general public. Most services and programs are complimentary, parking included. Educator Resource Center services are also available during our drop-in hours or by appointment, Tuesday – Saturday. Drop-in hours can be found at mos.org/educator-resource-center. Please contact the ERC to schedule an appointment: 617-589-0174, library@mos.org.

September Sunday

**September 18, 2016**

What new programs and exhibits in STEM education does the Museum offer students and educators? September Sunday provides the answer! Members of our Teacher Partner Program and up to three guests are invited to a free day of fun, exploration, and learning. See how the Museum’s offerings connect to education standards and how to enhance your students' educational experiences in these important fields of study. Admission to the Exhibit Halls and up to two ticketed venues is free.

Parking: Free in the Museum garage. Some restrictions apply. Time: 9:00 a.m. – 1:00 p.m. To register: mos.org/professional-development.

Library Collection

Our 18,000-volume collection covers a broad range of science, engineering, technology, and mathematics topics. Here you’ll find:

- Topic-specific trade books and storybooks appropriate for students in grades K – 12
- Standards-based curricula
- Resources for professional practice and growth
- DVDs of popular science series

The collection is updated regularly, so come back often to see what’s new! Library borrowing privileges are available exclusively to members of our Teacher Partner Program. Browse our collection online at mos.org/educator-resource-center.
National Center for Technological Literacy: Leading the Nation

The Museum’s National Center for Technological Literacy® (NCTL®) strives to promote the study of engineering from elementary school through high school, college, and beyond. The NCTL accomplishes this goal through educational products such as the curriculum materials listed, professional development opportunities, and advocacy. To learn how the NCTL can help your school district advance its commitment to technology and engineering education, visit mos.org/nctl.

Engineering is Elementary® (EiE®)

GRADES 1 – 5 Engineering is Elementary is a research-based curricular program that integrates engineering and technology concepts into elementary science topics while also making connections to literacy, social studies, and mathematics. Each EiE unit includes four engineering lessons and an illustrated storybook in which a child takes on an interactive design challenge (creating windmills, bridges, water filters, etc.). EiE offers professional development workshops for elementary school educators all year.

For more information on the EiE program, workshops, or to place an order: eie.org.

Engineering Adventures® (EA)

GRADES 3 – 5 Engineering Adventures is an out-of-school-time (OST) curriculum developed by the Engineering is Elementary team. EA aims to create OST activities and experiences that engage all learners in engineering and the engineering design process. Each EA unit includes six to ten activities that provide children with the experience they’ll need to complete the culminating engineering design challenge. Each unit includes a design showcase where children can share what they have engineered with others.

For more information and to download units, visit: engineeringadventures.org.

Engineering Everywhere™ (EE)

GRADES 6 – 8 The Engineering Everywhere curriculum provides middle school students in out-of-school time (OST) the chance to engineer and engage in the engineering design process. Developed by the Engineering is Elementary team, EE includes six to ten scaffolded engineering activities culminating in an exciting design challenge. Each unit includes a design showcase where children can share what they have engineered with others.

For more information and to download units, visit: engineeringeverywhere.org.

Building Math

GRADES 6 – 8 Design challenges capture the imagination of young engineers! These supplemental units are aligned to Next Generation Science Standards and tie common science topics to hands-on engineering design challenges. Each of three units (Amazon Mission, Everest Trek, and Stranded) poses hands-on design challenges in an exciting adventure story that reinforces mathematical reasoning.

To place an order: walch.com. Funded by the GE Foundation in a partnership between Tufts University and the Museum of Science. Published by Walch Publishing.

The NCTL is developing Engineering Now, a new middle-school technology and engineering curriculum for the classroom. These supplemental units tie common science topics to hands-on engineering design challenges. Multimedia materials include short “webisodes” of real engineers and scientists working in US defense laboratories.

To view webisodes: dodstem.us.

Engineering the Future: Science, Technology, and the Design Process™

GRADES 9 – 12 This groundbreaking curriculum, used in high schools across the nation, emphasizes the relevance of science and math concepts through student design projects. The main textbook, with first-person stories from 32 practicing engineers and technicians, introduces students to diverse engineering professions and guides them in applying science, math, and physics to real-world problems. Engineering the Future® aligns with Massachusetts standards and is currently being revised to support the Next Generation Science Standards (NGSS).

For more information or to place a textbook order: iat.com/courses/engineering.
Bringing the Museum to Your School

Our team of educators will travel throughout New England to bring the Museum’s unique educational experiences to your school. Entertaining and interactive, our Traveling Programs support the current Massachusetts Science and Technology/Engineering Curriculum Framework and Next Generation Science Standards. Most offerings are limited to individual grades, but a few can be booked for small ranges of grade levels.

Scholarships for qualifying schools and discounts are available.
For more information: 617-589-0354, travelingprograms@mos.org, mos.org/travelingprograms.

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<thead>
<tr>
<th>Program</th>
<th>Grade</th>
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<tr>
<td>Dig into Dinosaurs</td>
<td>pre K – 2</td>
<td>INT</td>
</tr>
<tr>
<td>Engineering: Bridges Workshop</td>
<td>pre K – 2</td>
<td>INT</td>
</tr>
<tr>
<td>Animal Habitats</td>
<td>K – 2</td>
<td>PRES</td>
</tr>
<tr>
<td>Life Cycles</td>
<td>K – 2</td>
<td>PRES</td>
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<tr>
<td>Observing Air &amp; Flight</td>
<td>K – 2</td>
<td>PRES</td>
</tr>
<tr>
<td>Observing Electricity &amp; Magnets</td>
<td>K – 2</td>
<td>PRES</td>
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<tr>
<td>STARLAB: Lower Elementary</td>
<td>K – 2</td>
<td>IMM</td>
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<tr>
<td>States of Matter</td>
<td>2 – 5</td>
<td>PRES</td>
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<tr>
<td>Animal Adaptations</td>
<td>3 – 5</td>
<td>PRES</td>
</tr>
<tr>
<td>Geology: Rock Detectives</td>
<td>3 – 5</td>
<td>INT</td>
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<tr>
<td>Motion: Forces &amp; Work</td>
<td>3 – 5</td>
<td>PRES</td>
</tr>
<tr>
<td>Now Hear This: The Sound of Science</td>
<td>3 – 5</td>
<td>PRES</td>
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<td>STARLAB: Upper Elementary</td>
<td>3 – 5</td>
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<tr>
<td>Weather: Wind, Water &amp; Temperature</td>
<td>3 – 5</td>
<td>PRES</td>
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<tr>
<td>Electromagnetism</td>
<td>3 – 6</td>
<td>PRES</td>
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<tr>
<td>Engineering: Wind Energy Workshop</td>
<td>3 – 6</td>
<td>INT</td>
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<td>Heat &amp; Temperature</td>
<td>6 – 8</td>
<td>PRES</td>
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<tr>
<td>Motion: Speed, Velocity &amp; Acceleration</td>
<td>6 – 8</td>
<td>PRES</td>
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<tr>
<td>STARLAB: Middle School</td>
<td>6 – 8</td>
<td>IMM</td>
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KEY:
- **IMM** Immersive Program: Transforms the immediate environment using large-scale materials and models.
- **INT** Interactive Program: A workshop involving hands-on activities.
- **PRES** Presentation: Includes demonstrations of unique devices or live animals. Ideally suited to large groups (50+ participants).
Coming Attractions

Da Vinci – The Genius

October 23, 2016 – February 26, 2017

See the most comprehensive exhibition on Leonardo da Vinci to tour the world. Created with the assistance of the Museo Leonardo da Vinci in Rome and a number of experts in Italy and France, the exhibition brings to life the genius of Leonardo as an inventor, artist, scientist, anatomist, engineer, architect, sculptor and philosopher. Suitable for all ages, this amazing interactive exhibition provides a fascinating insight into not only the mind of a genius, but also into the fundamental scientific and artistic principles that he discovered.

This exhibition has been made available by Grande Exhibitions and Pascal Cotte, France.

Chocolate

January 29 – May 7, 2017

Explore the transformation of this rainforest plant into the world’s favorite treat in this immersive exhibition featuring approximately 200 objects and carefully detailed replicas. See pre-Columbian ceramics, 18th-century European porcelain chocolate services, and 20th-century advertisements, media, and interactives—plus, smell the tantalizing scent of chocolate.

Chocolate and its national tour were developed by The Field Museum, Chicago. This exhibition was supported, in part, by the National Science Foundation.

POPnology

April 30 – September 4, 2017

Blend the past, present, and future with science and technology as punctuated by pop culture in a revolutionary visitor experience. Enjoy interactives to explore a timeline of music, art, toys, and videogames that make innovative and often surprising uses of today’s technology. Also included: virtual reality, classic and 3-D games, and cutting-edge instruments.

POPnology® was created by Stage Nine Design and is distributed by Exhibits Development Group.