

EDUCATION PROGRAMS 2021-2022

Mission mARs

Take a journey to Mars using
augmented reality! Page 5



New: Mars by Remote
An introduction to Robotics,
Aeronautics and Programming.
Page 4



Cradle of Aviation Museum
and Education Center



516-572-4066 • www.cradleofaviation.org

Create a personal connection to your lessons and drive classroom engagement with an unforgettable, entertaining, and educational class trip to the Cradle of Aviation Museum.

Now in our 19th year, thousands of school groups have been captivated by their experience at the Cradle of Aviation. Our Education Department will curate your day with affordable, customized programs from 60 min lessons to a full day of education and activity to meet your needs. Led by educators, all of our classes and programs are STEM-based, hands-on, and developed to comply with the NYS Science Learning Standards.

Your students can walk through the history of flight and the rich history of our region through guided museum classes, theater shows and our Aerospace Quest. All in one location. Additionally, they can enjoy lunch from our fully-operational cafeteria and visit our museum store. Each of our eight museum galleries will deliver a "WOW" moment as students travel through time with over 75 air and space craft from hot air balloons and kites to jet aircraft and an actual lunar module on the Moon.

Studies show that museum trips teach critical thinking, allow for real-world experiences, and improve test grades. And above all they are fun. When you ask students about some of their favorite memories from school, they often recall their eye-opening field trips.

So plan a visit to the Cradle of Aviation Museum and Education Center for an exciting, educational, and memorable adventure in a world-class museum, that's right in your own backyard.

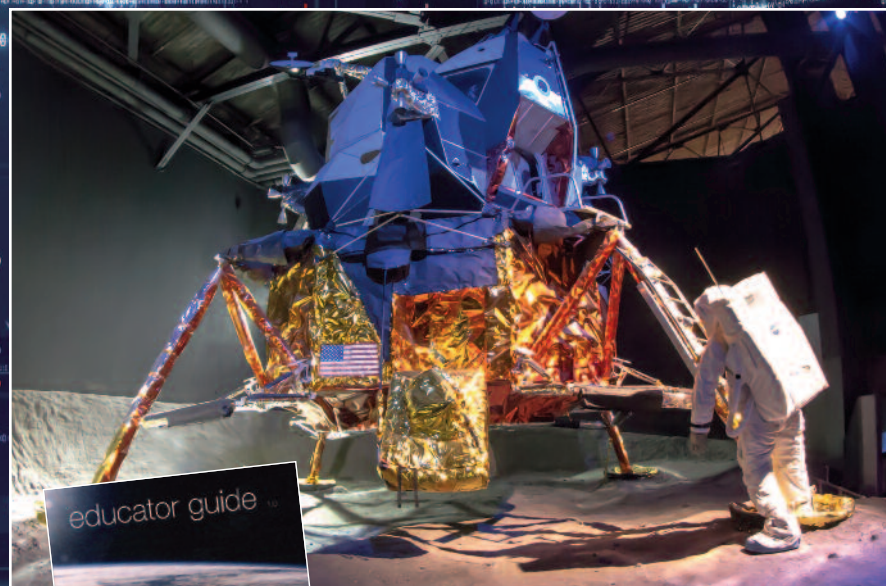
"Opportunities to learn STEM outside of school directly affects what is possible inside classrooms, just as what happens in classrooms affects out-of-school learning."

~ Report by the National Academies of Science, Engineering, and Medicine, August 2015.

Plan Your Trip

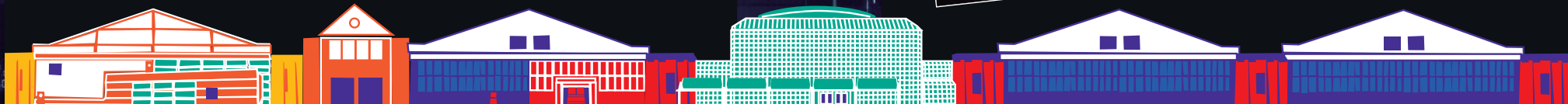
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To make a reservation please call (516) 572-4066

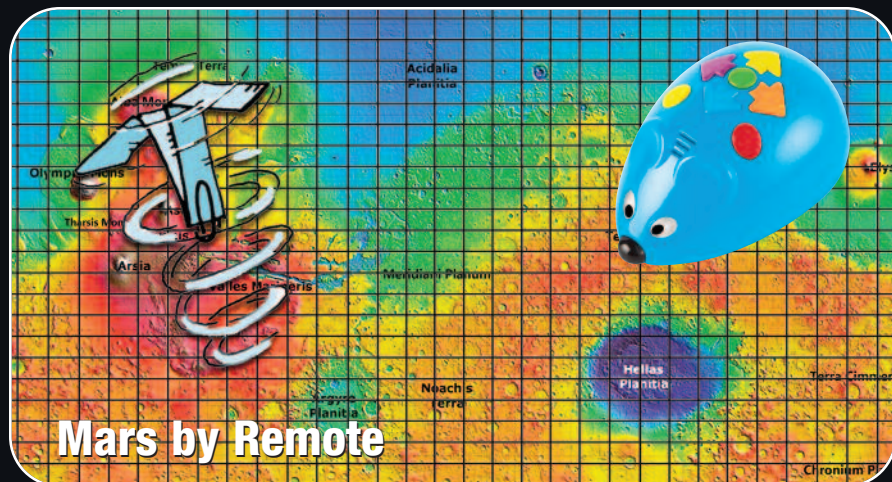


FREE Educator Guide

Thanks to a New York State Council on the Arts grant, you can now visit cradleofaviation.org/education and download our 40 page educator guide.



Museum Classes



Mars by Remote

New! Mars by Remote - 50 minutes, grades 2 – 4

Do you have what it takes to be a coder? Join us for this exciting program where your young learners are introduced to the basics of robotics, aeronautics, and programming. Discover how NASA sends messages to their rovers, how the rovers traverse a planet, and uncover how the Ingenuity helicopter took its first flights on Mars by building paper helicopters.

3, 2, 1, Blast Off! - 30 minutes, grades 4 – 12

Can you imagine taking off in a rocket with powerful boosters? Rockets are the cornerstone of space exploration and ensure satellites get into space! Learn more about how rockets propel beyond Earth's atmosphere while experimenting with basic types of rockets.

Tech...Under Construction - 30 minutes, grades 4 – 8

Throughout the technology industry change is happening every day. For students to become a part of this revolution they will need to understand how technology works... "under the hood." Using hands-on activities, students will learn the components of the technology industry from hydraulics to circuits uncovering the essentials to constructing robotics, rovers, drones, and more!

Physics of Toys - 30 minutes, grades 2 – 9

Yo-yos, balloons, and slinkies may be found in any kid's closet, but they probably don't realize that they can learn science from them. Students will use common toys to explore inertia, kinetic energy, laws of motion, and many more physics principles in this fun hands-on class.

Living in Space - 30 minutes, All grade levels

There are many things one needs to know before venturing up into space...like how does one go to the bathroom? The most common and practical questions will be answered on what life is like in space. Students will discover where to sleep, what kind of food is available, what astronauts wear and what some hazards are. Some students will even get to try on a spacesuit!

Virtual Field Trips for Students!

Please visit cradleofaviation.org/virtual-field-trips for our many offerings.

Museum Classes



Mission mARs

Mission mARs - 50 minutes, grades 5 – 8

Take a journey to Mars using augmented reality! Students will be working in groups as NASA technicians to understand what it will take to establish a colony on Mars. They will learn about NASA's newest rover, Perseverance, planet's elements, weather, and reflect on human needs on another planet. Once they've learned the basics of how to make our footprint on Mars, students will use augmented reality to design their place in space.

Kites! - 30 minutes grades 1 – 3

3000 years ago, the Chinese invented kites and today most of us have attempted to fly one. Learn how kites were precursors to airplanes and build your own.

Force and Motion - 30 minutes, grades 4 – 8

Experience Isaac Newton in a whole new way! Students will pull, knock and twist their way into a better understanding of Newton's laws of motion through fun, engaging experiments. They will not only have a better appreciation for his laws, but students will never look at their world the same way again. Experiments include pulling a table cloth from under dishes and racing against other students in our Third Law Challenge!

How Does it Fly? - 30 minutes, grades 2 – 8

Birds, planes, helicopters, rockets, or even drones all take off and to the skies. But how do they fly?! There is a lot of science there. Learn about the principles of flight and make connections between how animals inspired people to achieve sustained flight. Then fast forward to the future as we explore the personal aerial vehicles of tomorrow.

Guided Tour: Highlights of Long Island Aviation - 50 minutes, All grade levels

From ballooning to the Moon...an evolution of aviation, all in under an hour. This museum educator-led program will take your group through the museum's collections focusing upon major events and aircraft in aviation history. Inquiry-based learning will help students interpret the history of aviation on Long Island according to the age level and needs of each group. ENL option available upon request.

➡ September-October save \$2.00 per student on museum/theater combo tickets!

All classes comply with national and state standards.

Outreach Programs

Museum Outreach - We Come to You!

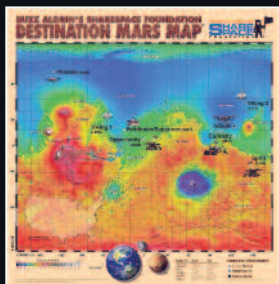
Choose from any of our Museum Classes listed below (see pages 4-5 for descriptions) to make learning come alive for children and adults in a variety of settings from schools, libraries, camps, scout meetings to community centers. Led by museum educators, all programs use hands-on demos to promote the museum's philosophy of inspiring and educating while entertaining.



Available Classes:

New! Mars by Remote - grades 2 – 4
3, 2, 1, Blast Off! - grades 4 – 12
Tech...Under Construction - grades 4 – 8
Physics of Toys - grades 2 – 9
Living in Space - All grade levels
Kites! - grades 1 – 3
Force and Motion - grades 4 – 12
How Does it Fly? - grades 2 – 8

Also Available!



Giant Mars Map - 25ft x 25ft

Let museum educators take you and your students to Mars! With our Giant Mars Map, students will be able to explore the Red Planet as a satellite, rover, or astronaut through a variety of educator led activities which allow for a real hands (and feet) on learning experience. Best for students in grades 1-6.

Nassau County Outreach Pricing

Base 45 Minute Program\$350.00
Additional 45 Minute Same-Day Programs.....\$50.00

Please call for outreach pricing in Suffolk, Queens and Kings counties.

Outreach programs for schools are age-appropriate and designed to address New York State Learning Standards. To find out more, book a program, or even create customized activities call (516) 572-4029.

Competitions & Professional Development

Annual Competitions - Free with Museum Admission



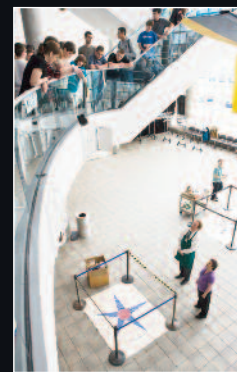
Exciting competitions
for young people!

2021-2022 Competitions

Tiny Whoop Contest
February 26

Gateway to Mars Showcase
April 7

Eco-Engineers Contest
May 9



CTLE Certified Teacher Workshops

Professional Development Day: Think BIG! - November 2

Gateway to Mars - January 26

Adventure in AR - March 2

Colors of the Universe - May 4

To learn more about our professional development programs and to register, please visit: www.cradleofaviation.org/pd

In addition to these offerings, we would be thrilled to design a professional development program for you, your school or your district based on your curriculum. For rates on a custom professional development program, please contact us at 516-572-4028.

Free Previews for Teachers

If you would like to see what we offer for programs, preview a theater show or to just take a look around, do not hesitate to call! Teacher screenings and sneak peeks are free here at the Cradle. You can even have your staff come for a day of Professional Development where we will create a schedule for you to sample a little bit of everything. Reservations are required. Please call (516) 572-4028.

Planetarium Dome Theater



Digistar6 advanced computer graphics technology for digital planetariums provides an immersive dome experience.

jetBlue
SKY THEATER
PLANETARIUM

Planetarium Shows

Mars 1001

All grade levels - Space reporter Miles O'Brien guides you through the first human mission to Mars — a daring 1000-day mission to fly an international crew to the red planet and return them safely to Earth. Many challenges will have to be met in order for the crew to succeed and unlock the secrets of the new World!

Junior Jetsetters & One World, One Sky

Grades pre-k-1st grade - The night sky is what led humans long ago to wonder what is beyond Earth. Spark your students' curiosity with an introduction to astronomy. Students will look at constellations, hear stories, and take space steps all while learning astronomy vocabulary. Then, explore the night sky with your favorite friends from Sesame Street in One World, One Sky: Big Bird's Adventure.

Solar System Tour

All grade levels - Our Solar System has everything you could want! Planets! Moons! Asteroids! and Comets! All swirling around our one and only star, the Sun. Students will learn all the different objects that populate the Solar System and get a glimpse at the force that keeps worlds spinning.

Moons of our Solar System!

Grades 1-4 - There are over 200 moons in the Solar System. Some are larger than planets, some are covered in volcanoes, and some might have alien life! During this show, we will explore various moons of the Solar System, including our own. Students will learn what a moon is, what causes its phases, and how we are exploring these natural satellites.

Current Night Sky (also available virtually)

All grade levels, Boy & Girl Scouts
Long before television, GPS, and street lights there were the stars of the night sky. Students will travel through the seasonal night sky to learn about constellations, hear mythical stories, and observe the magnificent Long Island sky.

NEW!
Mars 1001

Our full dome theater is a large-scale immersive environment, featuring real-time digital planetarium, visualization and simulation space and large-format cinema.



NATIONAL
GEOGRAPHIC
LEROY R. & ROSE W. GRUMMAN
DOMES THEATER

Schedule a Visit

Please call reservations, Mon.-Fri, 10:00-4:00 at (516) 572-4066

Booking - The following information is needed when booking.

- Date of visit
- Arrival and departure times
- Number of visitors including both children and adults
- Grade(s) of school group
- Chosen options
- Contact details
- Lunch requirements: purchase special box lunch or bring your own

Arrival

- Please arrive on time and leave book bags on the bus
- Lunches will be collected and held until lunch time
- Review museum schedule
- Before disembarking your group, please check in at the Box Office
- If you should come late, rescheduling dome show times and educational programs are contingent upon ticket and educator availability

Requirements

- Supervision requirements is no less than one adult per ten children
- 24 hour notice is required for reservation adjustments
- Adult chaperones are responsible for keeping their groups together and maintaining order
- NO FOOD, DRINK, GUM or BACKPACKS are permitted in the museum

School Group Rates

Museum	Theater Show	Museum & Theater Show	Museum Classes (30 min.)	Museum Classes (50 min.)
\$8.00	\$8.00	\$13.00	\$1.00	\$2.00

- We accept cash, checks made payable to the Cradle of Aviation Museum, Master Card, Visa and AMEX.
- Payments must be made two weeks prior to date of visit
- We reserve the right to cancel your reservation if payment is not made and a representative can not be contacted
- NO REFUNDS will be given if your group numbers decrease the day of your visit

SPECIAL DISCOUNTS DURING OFF-PEAK PERIODS!

> September and October – save \$2.00 per student on a museum ticket when combined with a theater ticket purchase.

For field trip funding opportunities, visit www.cradleofaviation.org/education.

Directions & Contact Info

Directions for Buses: Long Island Expressway, exit 39S, Glen Cove Road South. Glen Cove Road turns into Clinton Avenue. when you cross Old Country Road. Make a left onto Stewart Avenue. Take Stewart until you reach Eisenhower Park and make a right onto Merrick Avenue. On Merrick make a right at the first light onto Charles Lindbergh Blvd. Go two traffic lights on Charles Lindbergh and make a right into our parking lot. The entrance is the glass fronted Reckson Center building.



Hours:

Monday: Open for Groups (Min. 100)
Tuesday–Sunday: 9:30–5:00

Address:

Cradle of Aviation Museum
Charles Lindbergh Blvd.
Garden City, NY 11530

Reservations:

(516) 572-4066

Reservations Fax:

(516) 572-1312

Follow Us



More info at www.cradleofaviation.org/education

Field Trip Planning Guide & Online Reservation Form

At the Cradle, we strive to provide quality programming and a premier museum experience for all of our visitors! We believe that begins with the planning and reservation process so we've developed an online guide with accompanying reservation form to help make your visit as easy and seamless as possible.

Please visit cradleofaviation.org/fieldtrip to get started!



Elementary STEM Partnerships

STEM Partnerships with local school districts allow students to explore relevant and current challenges in STEM through project based learning.

Please contact us at 516-572-4028 for more information.



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The Berlin Family Foundation

