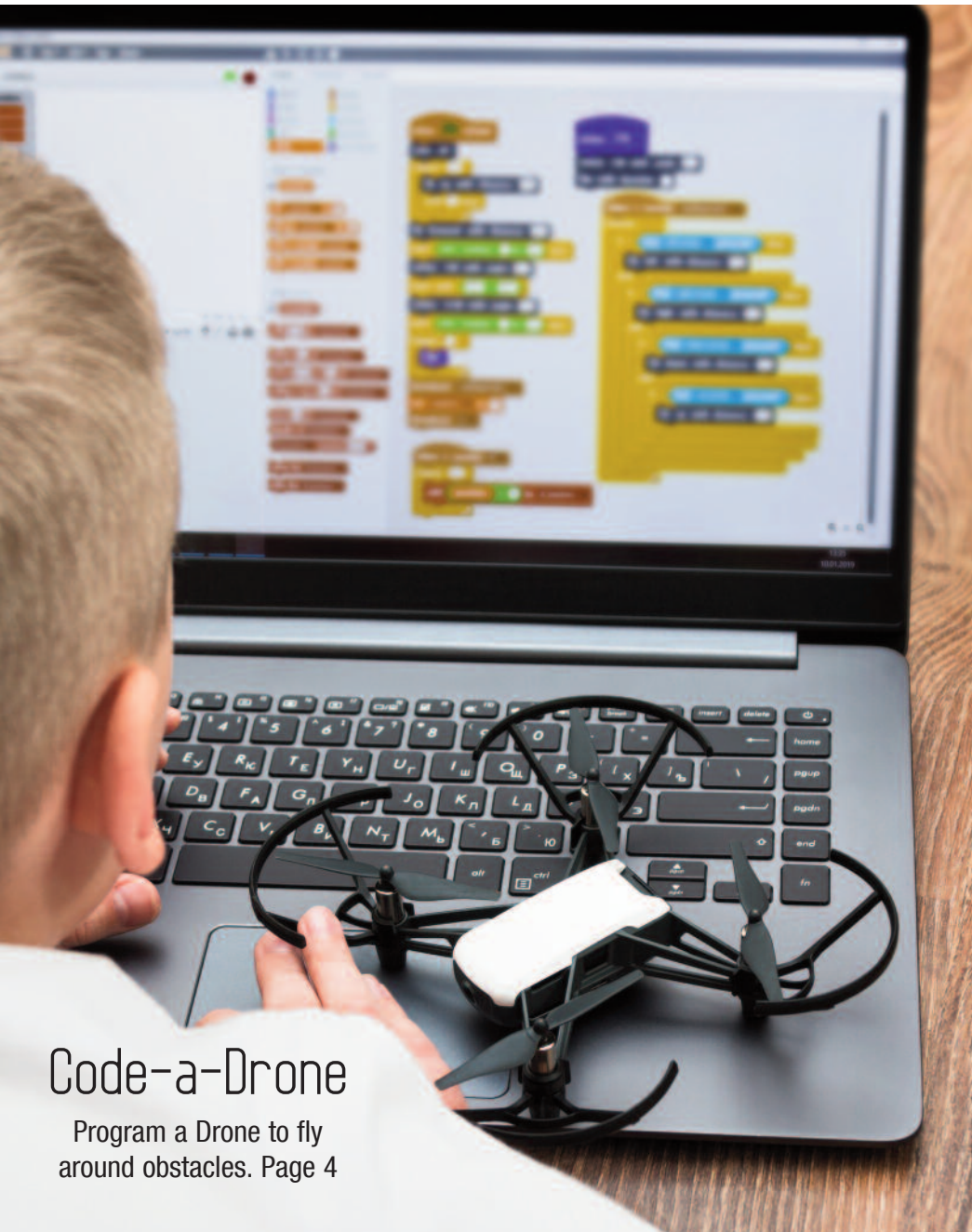


EDUCATION PROGRAMS 2022-2023



Code-a-Drone

Program a Drone to fly
around obstacles. 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 20th 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 30 minute 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 Quests. 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.

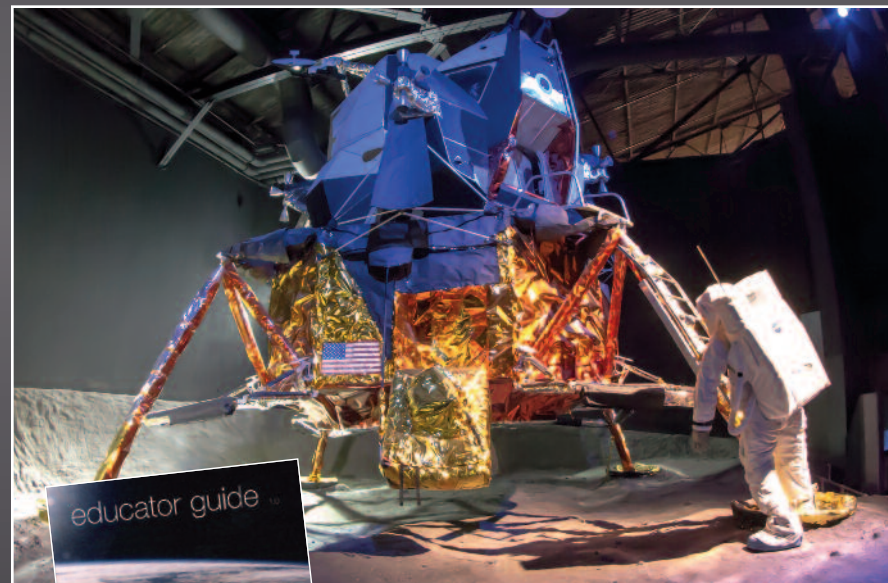
“Opportunities to learn STEM outside of school directly affects what is possible inside classrooms, just as what happens in classrooms affects out-of-school learning.”

~ 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



Code-a-Drone

Grades 5–12

Code-a-Drone grades 5–12 (30 minutes)

Drones are becoming more and more a part of everyday life and in this hands-on program, students will learn how they function. Students will learn how drones are programmed to fly safely and then have the opportunity to code a drone of their own to fly over, under, and around obstacles.

Mars by Remote grades 2–4 (30 minutes)

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. Students will plot a course on a map of the red planet and then code a simple rover to autonomously get from point A to point B.

Physics at Play grades 2–9 (30 minutes)

What do your favorite sports and toys have in common? They all follow the laws of physics! In this interactive lesson, students will learn how physics is at the foundation of sports and games and how they can better understand their favorite activities by understanding the science behind them.

Find-a-Flight grades 3–8 (30 minutes)

Ever see an airplane up in the sky and wonder where it is going? In this lesson, students will learn about flight tracking software and use it to plot the routes of airplanes flying into, out of, and over New York. They'll learn about different places in our own country and around the world.

Physics of Light grades 9–12 (50 minutes)

Get ready for a deep dive into the nature of light. From Faraday to Einstein, students will learn about scientists and their experiments as they endeavored to understand the properties of the electromagnetic spectrum. They will recreate some of the more famous experiments and ultimately learn how time dilation occurs through a series of interactive experiences.

Bot Sense grades 6–8 (50 minutes)

What can a robot do? Only what it is programmed to! In this program, students will learn about block coding and will use it to program a Lego Mindstorms robot to sense the world and react to it.

Museum Classes



Mission mARs

Grades 5–8

Mission mARs grades 5–8 (30 minutes)

Students will blast off on a mission to the red planet by using augmented reality software in this fast paced and fun program. They'll land a rover on the Martian surface, drive around and even have a chance to interact with virtual 3D objects, all while learning about the machines we sent to our celestial neighbor.

How Does it Fly grades 1–8 (30 minutes)

What are lift, drag, thrust and gravity? They are just a few of the concepts explored in this hands-on program that covers the scientific principles of flight and how people used them to conquer the sky.

Living in Space All Grades (30 minutes)

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.

3,2,1 Blastoff grades 4–12 (30 minutes)

Can you imagine taking off in a rocket with powerful boosters? Rockets are the cornerstone of space exploration and help us to better understand our universe! Learn more about how rockets propel people and machines beyond Earth's atmosphere while experimenting with basic types of rockets.

Kites grades K–3 (30 minutes)

3000 years ago people in China invented the first kites and today most of us have attempted to fly one. Learn how kites were precursors to other flying machines and build your own.

Guided Tour all grades (50 minutes)

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 is 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:

Mars by Remote - grades 2 – 4
3, 2, 1, Blast Off! - grades 4 – 12
Physics at Play - 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



Digitalis Digitarium Portable Inflatable Planetarium!

Digitalis is a portable, inflatable planetarium dome that can accommodate up to 30 students per class session. Once inside the dome, discover the majesty of the stars and our universe with its digital technology designed to showcase bright, clear images. The Digitalis dome has a stand-up entrance permitting easy entry for students and teachers, offers interactive learning opportunities and is best suited for your gym or auditorium.

Nassau County Outreach Pricing

45 Minute Class.....	\$350.00
45 Minute Planetarium Program	\$500.00
Additional Same-Day Classes/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.

Virtual Field Trips for Students!

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

Competitions & Professional Development

Annual Competitions - Free with Museum Admission



Exciting competitions
for young people!

2022-2023 Competitions

KidWind

Solar Sprint

Egg Drop

Please visit
cradleofaviation.org/comp
for dates & details



CTLE Certified Teacher Workshops

Mars by Remote - November 8

Mindstorm Coding - January 26

Fly by Code - March 16

Astronomy - May 18

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

NEW! Touch the Stars - Grades 3+

Touch the Stars centers on mankind's probes used in exploration of our solar system and the galaxy beyond. The film traces the path to space through the history of NASA's probes, orbiters, and landers, from the heart of our solar system to the surface of the other planets and moons, to the grand tour of the Voyager spacecraft through the outer planets and beyond.

NEW! Unseen Universe - Grades 3+

For millions of years, our view of the heavens has been limited by our eyes, allowing us to only see a narrow band of electromagnetic radiation we call visible light. For the first time ever, in the greatest breakthrough since the invention of the telescope, we now have the technology to capture the Universe over an amazing width of the spectrum and beyond.

NEW! Educator Led Live Show - Space Stories - Grades pre-k-2nd

Being an astronaut on the International Space Station is a lot of exciting hard work and no two astronauts have the same story. Students will learn about astronaut life on the International Space Station. Using story sequencing students will put together their own exciting tale of space adventure!

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!

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! Students will learn what a moon is, what causes its phases, and how we are exploring these natural satellites.

Junior Jetsetters & One World, One Sky - Grades pre-k-1st

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

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.

Current Night Sky - All grade levels (also available virtually)

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.



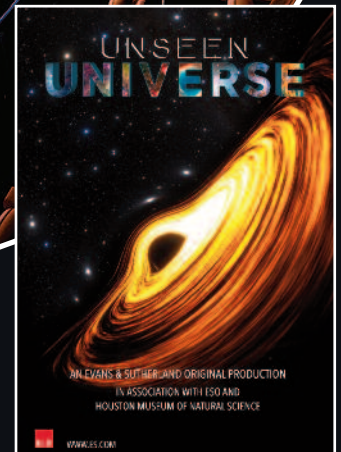
The world's most advanced planetarium.

- Powered by all new 45k Lumen Christie D4K40-RGB pure laser projectors.

jetBlue
SKY THEATER
PLANETARIUM
LEROY R. & ROSE W. GRUMMAN
DOME THEATER



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



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 fewer than one adult per ten children
- 1-week 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.



Support for our educational programs is provided in part by
The Berlin Family Foundation

