Take a ‘byte’ out of technology with two new museum classes!

Mission mARs
Design a Mars Habitat in Augmented Reality

Renewable Robots
Explore Renewable Energy using LEGO EV3 Robotics Kits
Now in our 17th year, thousands of school groups have been captivated by their experience at the Cradle of Aviation. Our Education Department works hard to 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 carefully designed and developed to comply with the NYS Science Learning Standards. And many of the activities can be replicated at home extending the experience while reinforcing your lessons.

Your students can walk through the history of flight and the rich history of our region through guided museum classes, live Dome programs, giant-screen films and our Aerospace Quest. All in one location. Additionally, they can enjoy lunch from our fully-operational cafeteria or visit to 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, provide access to unique tools and resources, and improve test grades. And above all they are fun. When you ask students about some of their favorite memories from school, they often mention the eye-opening field trips than enhanced classroom learning.

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.
NEW! Mission mARs - 50 minutes, grades 7 – 8
Prepare for a journey to Mars using augmented reality! Students will work in groups as NASA technicians to understand what it will take to establish a colony on Mars. They’ll learn about the planet’s elements, weather, and reflect on human needs on another planet. Once they’ve learned what the basic needs are, they will design their Mars colony using augmented reality.

NEW! Renewable Robots - 50 minutes, grades 5 – 8
Robotics, coding and renewable energy all meet in our newest program, Renewable Robots. Students will explore and compare wind, solar and hydro power using LEGO EV3 robotics kits. They will have the opportunity to work with mini solar panels and turbines to complete challenges, determine how to most efficiently harness and use that power and compare the amount of energy they can capture from each source.

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.

Drones: A Flight to the Future - 50 minutes, grades 5 – 8
From home delivery and journalism to disaster management, “drones” aka UAV’s (unmanned aerial vehicles) are taking over the skies. But how did they get their start? How exactly do they work? What else are they used for? Throughout the class, students will be propelled towards the future after learning all about the next step in aerospace engineering! They will explore the history of drones, discover how drones require computer programming, construct a drone, and even experiment flying one.

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.

iRobot - 30 minutes, grades 2 – 8
You might be familiar with androids in Star Wars, Star Trek or even the Terminator. However, modeling and engineering robots after humans in the real world is extremely challenging because of the complex systems humans use to do tasks. Using hands-on activities students will compare and determine the essentials needed to engineer a robot like a human while creating excitement about science, technology, and engineering.

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!

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 – 12
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!

Weather to Fly By - 30 minutes, grades 3 – 8
What is something that each and every one of us, including animals and plants, has to deal with everyday, all year long? Yes, it is weather! Find out about basic weather patterns, where weather can be found, its effects on aircraft and the ingredients you need to conjure up some destructive forces!

Fly By Math - 50 minutes, grades 4 – 9
This math program puts students’ skills to the ultimate test - can they safely direct air traffic? Recreating the intense atmosphere of air traffic control centers, it’s up to the students to see if they need to change the plane’s direction or speed by putting their math skills to use in these real-world situations.

How Does It Fly? - 30 minutes, grades 1 – 8
What are lift, thrust and drag? These are just a few of the concepts explored in this program that features hands-on demonstrations covering the history of air travel. Explanations of how flight is accomplished will provide insight into the scientific principles of flight.

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!
December-January visits receive a FREE 30 minute museum class!

All classes comply with national and state standards.
Outreach Programs

Museum Outreach - We Come to You!

Choose from any* of our Museum Classes (pages 4-5) 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. *Due to the nature of our augmented reality class, it is unfortunately not available for outreach at this time.

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.

Giant Mars Map - 25ft x 25ft

After taking you to the stars, 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; book with the Digitarium to unlock a special discount!

Nassau County Outreach Pricing

Base 45 Minute Program .......................................................$350.00
Base 45 Minute Digitarium Planetarium Program.................$500.00
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 from across Long Island!

2019-2020 Competitions

KidWind Challenge
October 23
Newton’s Egg Drop
March 5

CTLE Certified Teacher Workshops

KidWind Challenge Workshop - September 19
STEM Hub PD Day - November 5
Engineering Our World - January 14
Women Pioneers in Aviation - March 19
Backyard Astronomy - June 4
NEW! STEM Institute - June 30–July 2

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 516-572-4029.

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.
Digistar 6 advanced computer graphics technology for digital planetariums provides an immersive dome experience.

**Fusion Shows**
These 50 minute shows combine live programs with movies for a unique planetarium experience!

- **Train like an Astronaut & One World, One Sky - grades pre-k – 2**
- **Train like an Astronaut & Asteroids - grades 3 – 5**

You have been selected into NASA’s new astronaut program! Did you know, astronauts have to train mentally and physically before heading to the International Space Station? Students will learn multilingual astronomy vocabulary, meet a physical challenge, and complete an ISS mission. Find out if you have what it takes! Then, (grades pre-k-2) enjoy One World, One Sky: Big Bird’s Adventure or (grades 3-5) will enjoy Asteroid: Mission Extreme.

- **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.

- **Space News & Asteroids - grades 3 – 12**

Explore different topics happening in science and astronomy right now. After hearing the latest Space News, sit back and enjoy Asteroid: Mission Extreme. This movie takes audiences on an epic journey to discover the possibilities that asteroids present for space travel.

**Live Shows** 50 minute educator led planetarium shows!

- **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. Pair with museum classes: Living In Space, Force and Motion

- **To the Moon! - grades 1 – 8**

The Moon lights up our nights but how much do you really know about our night-time neighbor? During this show, students will get their hands on the Moon, see its many phases, learn about its features, and investigate the dark side.  
Pair with museum classes: 3, 2, 1, Blast Off!, Living In Space, Force and Motion

- **Current Night Sky - 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. 
Pair with museum class: Living In Space

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**Get your suitcase ready and join us on an interactive adventure through the universe!**

Journey beyond the Earth and into the sky LIVE with our educators!

**NEW! Volcanoes**

**Apollo 11 First Steps**

**Backyard Wilderness**

Films available from our library: (group minimums apply)

- Dream Big, Backyard Wilderness
- Living in the Age of Airplanes
- Mysteries of the Unseen World
- Journey to Space
- Air Racers, Back to the Moon, Lewis and Clark
- One World, One Sky: Big Bird’s Adventure
- Shackleton, Sea Monsters and Sunstruck
Schedule a Visit

Please call reservations, Mon.-Fri, 9:30-4:00 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 that 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

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<tr>
<th>Museum</th>
<th>Theater Show</th>
<th>Museum &amp; Theater Show</th>
<th>Museum Classes (30 min.)</th>
<th>Museum Classes (50 min.)</th>
<th>Nunley’s Carousel</th>
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• 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.
> December and January – receive a FREE 30 minute class with your visit!

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

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

Reservations:
(516) 572-4066
Reservations Fax:
(516) 572-1312

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

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!

FREE 1-Year Memberships for Educators

Benefits include FREE admission to museum galleries for up to six people and much more. Previous educator members renew at a deep discount.

To take advantage of this offer, simply fill out our short online survey designed to help us understand how better to serve you.


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 516-572-4033 for more information.

Nunley’s Historic Carousel

Built in 1912, the 40 horse carousel entertained generations of Long Islanders in its Baldwin home for over 50 years. Nassau County has put a tremendous amount of resources to not only restore the carousel but also build its beautiful new home.