BRING YOUR CLASS TO THE NEW YORK CITY

CENTER FOR SPACE SCIENCE EDUCATION!

Adventures that Inspire Students and Teachers to Learn and Explore

NYC Center for Space Science Education
220 Henry Street, New York NY 10002

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NYC Department of Education

STEM matters·NYC

Challenger Learning Center New York, NY

NYC Center for Space Science Education

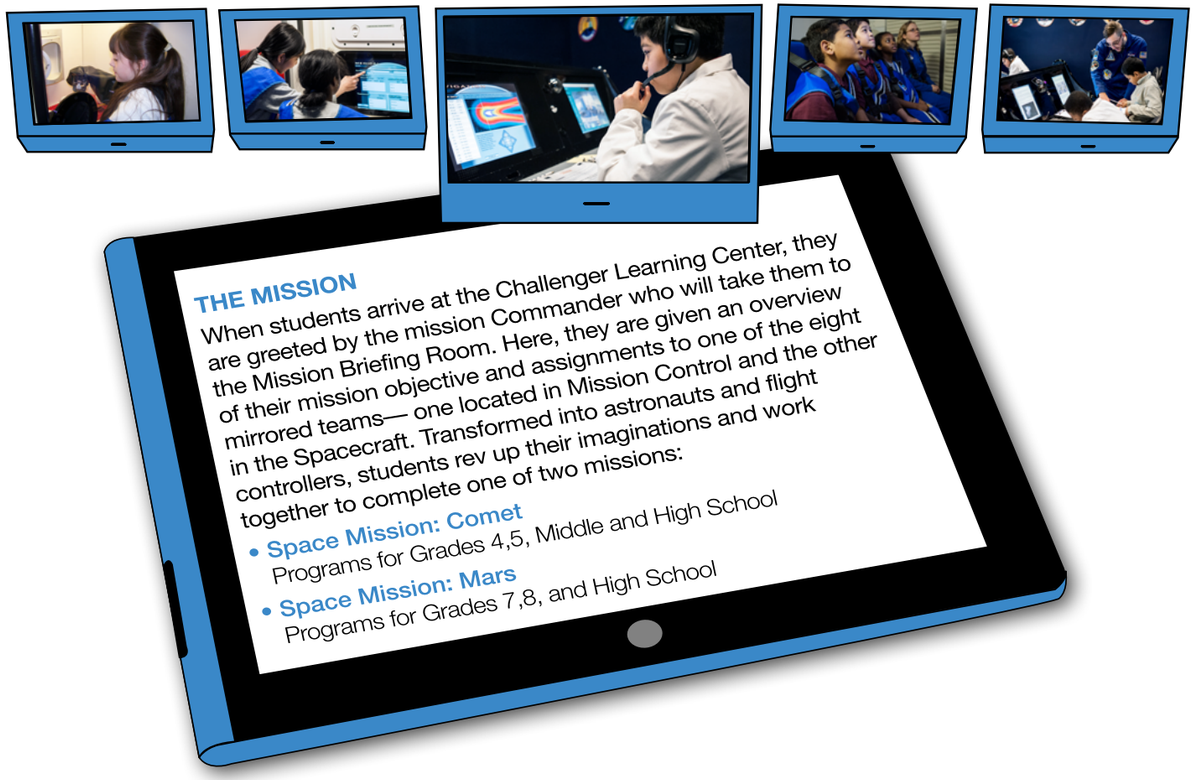
The New York City Center for Space Science Education (NYCCSSE) increases students' interest and excitement about Science, Technology, Engineering and Math (STEM) through space and aviation science. Through hands-on activities that simulate real world experiences, students in grades 2-12 apply math and science concepts learned in the classroom while working together to solve authentic problems. Students can take a simulated mission into space in the Challenger Learning Center or learn how airplanes fly in the NASA Aerospace Education Laboratory.

The Challenger Learning Center

The Challenger Learning Center engages students in awe-inspiring, simulated space mission adventures that include a realistic Mission Control room and orbiting Spacecraft – designed with guidance from NASA. Students are transformed into astronauts, flight controllers, scientists and even journalists as they work collaboratively to solve problems, make decisions, and share in the thrill of discovery.

PRE-VISIT PREPARATION

To prepare for the mission, teachers facilitate a pre-visit lesson which excites students about their mission and the experiments and research they will perform as astronauts and flight controllers.



The NYC Center for Space Science Education is operated by the New York City Department of Education Office of School Programs and Partnerships.

Astronaut Training

TOYS IN SPACE

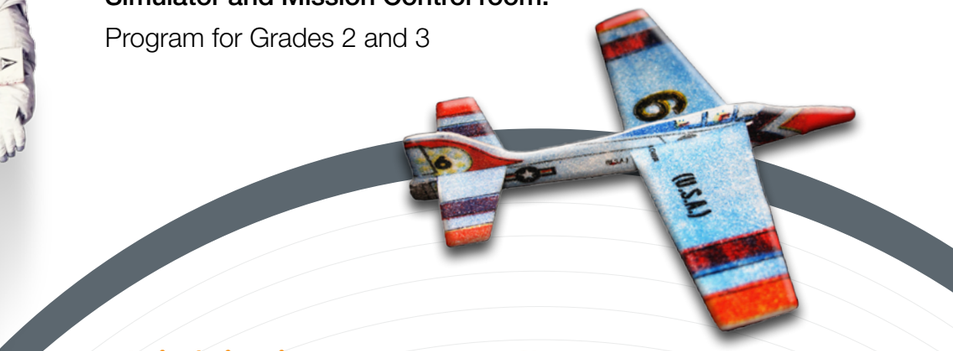
Is it possible to jump rope in space? Students discover how objects behave in zero-gravity! After experiencing how toys work on Earth, students predict how they will behave in space and then observe astronauts using the same toys. This program can focus on the nature of science or forces and motion.

Programs for Grades 4, 5 and Middle School

ASTRONAUT ADVENTURES

What is it like to live and work on the International Space Station? Students learn about the life of an astronaut through hands-on activities and interactive experiences in a Spacecraft, Space Shuttle Simulator and Mission Control room.

Program for Grades 2 and 3



NASA Aerospace Education Lab

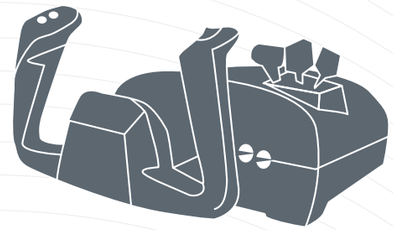
Equipped with flight simulators, a wind tunnel, model airplanes, and specialized software, the NASA Aerospace Education Laboratory (AEL) provides students the opportunity to explore how airplanes fly and how weather and other conditions affect flight during one of the following programs:

AERONAUTICS: VARIABLES

Can your students make an airplane pitch up and yaw left?

Program for Grade 5

AERONAUTICS: FORCES AND MOTION



How do the four forces of flight affect how airplanes fly?

Programs for Middle and High School

AERONAUTICS: WEATHER

How do different weather variables affect flight?

Programs for Middle and High School

Program Highlights

- Programs are aligned to the NYC Science Scope & Sequence.
- Common Core Learning Standards performance tasks are available and aligned to NASA Aerospace Education Laboratory aviation programs.
- NYCCSSE programs can be differentiated for most student populations. Our facility is wheelchair accessible. Please email us at **SpaceCenter@schools.nyc.gov** so we can discuss your program needs.
- NYCCSSE offers single and multi-day class visits, week-long camps, extended in-school and after school programs in aviation, engineering, cybersecurity, and robotics as well as professional development for teachers.
- Professional development workshops and institutes are offered periodically throughout the school year.

To learn more and register for a program, visit us at http://www.nyccsse.org.

> ***"There is no boredom here. From the moment students enter...bubbling with excitement, to the cheers as they accomplish their mission...the scene is one of total concentration."***
>
> - The New York Times

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(enter on Montgomery St. between Henry St. and Madison St.)

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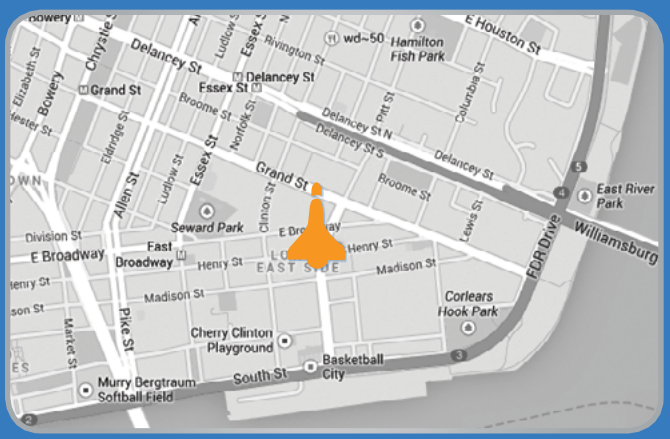

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