



Welcome to the New York Hall of Science (NYSCI), New York's hands-on science and technology center. NYSCI features more than 400 interactive exhibits, the expanded award-winning *Science Playground*, *Preschool Place* and the *NEW Rocket Park Mini Golf* course. NYSCI is a leading innovator in exhibit technology and educational programming. Join us for a fun-filled learning experience!

Contents

- 4 **Hours, Reservations and Fees**
- 6 **Big Science and Science Plus Days**
- > **Exhibitions**
 - 7 Permanent Exhibitions
 - 11 Traveling Exhibitions
 - 11 Science/Art Gallery Exhibitions
- 12 **Daily Demonstrations**
- > **Student Programs & Activities**
 - 13 Student Science Workshops
 - 18 Extended Learning Series
 - 19 Preschool Workshops
 - 20 Virtual Visits
 - 22 Science Assembly Programs (At School)
 - 22 After-School Science Outreach
- > **Student Activity Areas**
 - 23 Preschool Place Studio
 - 24 Science Technology Library
 - 24 Hands-On Discovery Labs
- > **Professional Development**
 - 26 Outreach Lesson Modeling
 - 29 Multi-Day Session Teacher Training & Rental Programs
 - 32 One-Day Professional Development Programs
 - 34 UFT-Sponsored Programs
 - 34 Teacher-in-Residence Program
 - 34 Parent/Child Workshop — Learning Opportunities for Home School and Family Learning Groups
- 36 **Rental Kits**
- 38 **Program Support**

Hours, Reservations and Fees

Group Hours

September – June

Monday: Closed

(open April – June 9:30 – 2 pm)

Tuesday – Thursday: 9:30 am – 2 pm

Friday: 9:30 am – 5 pm

(Free 2 – 5 pm)

Saturday & Sunday: 10 am – 6 pm

(Free Sunday 10 – 11 am)

School Vacation Weeks and

Public Holidays: 9:30 am – 5 pm

July & August

Monday – Friday: 9:30 am – 5 pm

Saturday & Sunday: 10 am – 6 pm

Reservations are required for group admission rates. A group consists of 10 or more paying visitors.

Book for January 4–8 and your group admission is half-price!



Group Admission (with reservation)

\$6 per student;
one chaperone free for every five students;
additional adults: \$6

Science Playground group admission

\$3 per student,
plus group admission

NEW Rocket Park Mini Golf group admission

\$4 per student,
\$5 per adult,
plus group admission

Groups without a reservation will be charged the general admission fee and chaperones will not receive free admission. To ensure a quality experience, one adult chaperone is required for every 10 students.

Admission is free for chaperones assisting disabled visitors.

Admission prices are subject to change.

To make your reservation

Please call the numbers below,

Monday – Friday from 9 am – 5 pm:

Call 718-699-0301 for:

Group Admissions

Science Playground

NEW Rocket Park Mini Golf

Student Science Workshops

Preschool Place

Student Activity Areas

Pfizer Foundation Biochemistry

Discovery Lab 1

Astronomy Discovery Lab 6

Astro Chemistry Discovery Lab 4

Science Plus Days

Please have the following information ready when you call:

1. School address and phone number
2. Name of contact person
3. Name of program(s) and preferred dates
4. Number of students and chaperones
5. Purchase order information (if applicable)

Groups have access to all permanent exhibits, plus live demonstrations and the Science Technology Library. Tours are self-guided with Explainers available to assist visitors.

Call 718-699-0005 ext. 303 for:

Professional Development

Outreach Lesson Modeling

Customized Professional Development

Parent Coordinator Events

UFT-Sponsored Programs

Multi-Day Teacher Training

Call 718-699-0005 ext. 596 for:

Student Programs & Activities

After-School Science Outreach

Big Science Days/Evenings

Extended Learning Series

Customized Student Programs

Call 718-699-0005 ext. 348 for:

Virtual Visits

Rental Kits

Early Childhood Programs

Science Assembly Programs

Pre-Visit Staff Development Conference

This one-day workshop is recommended to help you prepare for your field trip.

See page 33.

Ask about special Pre-K–3 days!

Visit our Educators Resource website at www.nysci.org/teacherconnections for field trip guides, field trip worksheets, and field trip templates.



Big Science and Science Plus Days

Big Science and Science Plus Days offer your group exclusive access to all NYSCI!

Big Science Day – For Whole School or District

During a Big Science Day, extra demonstrations and staff are added to enhance your field trip experience. *Science Playground* sessions are included, weather permitting.

*Maximum visitors:
1,000 participants
(including chaperones and students)*

*Available:
Mondays, September – February.*

*Fee:
\$7,000 for up to 1,000 participants.
Reserve a Big Science Day for September
or January for only \$5,000!
Call 718-699-0005 ext. 596 to reserve a
date or for more information.*



Science Plus Day

For single class trips and small groups, consider a Science Plus Day. During a Science Plus Day, you are placed in a group of 125 or fewer people and personally escorted from one exhibition area to another by a Senior Explainer. NYSCI limits the day to four groups of 125 to allow participants more time at each exhibit and with the Explainers. Teachers are sent pre-visit materials and a schedule for the day that includes 30 minutes at four designated exhibition areas, lunchtime and other scheduled events.

*Sessions:
Call 718-699-0301 for dates and times.*

*Fee:
Call for details.*

Exhibitions

PERMANENT EXHIBITIONS

Connections: The Nature of Networks *Upper Level, North Wing*

Connections explores the science of networks. Networks are everywhere and serve as a great tool for teaching science, mathematics, social studies and more! In this exhibition, state-of-the-art technology lets you investigate how the World Wide Web is like a real spider's web, or how a school lunch room is like a school of fish.

Deborah and Edward Horowitz Technology Gallery *Upper Level, Rotunda*

Surf the Internet as you tap into the World Wide Web. Explore tryscience.org and link to more than 400 science centers around the globe.

Exploration Station (for ages 4 and older) *Lower Level, Central Pavilion*

NYSCI's motion simulator ride combines a movie-like audiovisual show using a high definition, rear projection screen and Bose® surround sound with horizontal pitches, longitudinal rolls and vertical lifts. Each ride lasts approximately five minutes. The shows, which vary daily, include simulated journeys in a time machine, a fiery volcano and a Grand Prix racetrack.
\$4 per person (group rate)



Feedback

Lower Level, Central Pavilion
Pedal an airplane propeller, direct a spinning windmill and examine an antique steam engine (circa 1865) as you investigate self-sensing machines and how they work.

Hidden Kingdoms: The World of Microbes *Lower Level, Central Pavilion*

Enjoy the nation's largest interactive microbiology exhibition. View the millions of ordinary microorganisms around us and learn how they affect our health and environment.

Marvelous Molecules—The Secret of Life *Lower Level, Central Pavilion*

This exhibition explores the shared chemistry of living things. Find out what we have in common with plants, bacteria and marine mammals. Learn about photosynthesis, genetics and brain chemistry. Weigh yourself to determine the number of molecules in your body.

Sound and Light Lab

Street Level, Central Pavilion

The Sound & Light Lab showcases immersive interactive digital media projects that highlight the intersection of art, science and technology.

Mathematica: A World of Numbers

Street Level, Central Pavilion

This is the first interactive exhibition devoted to math. Beautifully crafted by one of the nation's leading designers, it engages visitors in exploring topology, symmetry and geometry through thought-provoking activities.

Preschool Place

(for children ages 6 and younger)

Street Level, North Wing

Experience a science-themed workshop in this playful environment, with over 22 hands-on exhibits designed for early learners with their teachers and caretakers. Hoist and transport foam bricks around the building area. See if your ball can race to the bottom first at the ball run. Build with blocks that connect in different ways. Connect magnetized train cars and drive them around the train table. Stage your own puppet show in a child-scale puppet theater. Explore discovery boxes and an exciting collection of science storybooks. Call 718-699-0301 to reserve *Preschool Place* for your group's field trip.

Realm of the Atom

Lower Level, Central Pavilion

Discover what makes all matter matter. Examine the world's first 3-D dynamic model of an atom magnified one billion times.

Rocket Park

Outdoors, weather permitting

This outdoor park features NYSCI's two iconic rockets surrounded by new interpretive panels and a climb-in capsule that is the same size as the original Mercury capsule. Indoors, the first Mercury capsule ever made and flown is displayed.

NEW Rocket Park Mini Golf

Outdoors, weather permitting

It's rocket science! How do rockets blast off into space and come back home safely? Scientists and astronauts understand that the same laws of motion and gravity that guide the path of a spaceship also control the motion of golf balls on Earth. So pilot your ball through this nine-hole outdoor mini-golf course at the foot of our two historic rockets and discover the secrets of spaceflight.

Additional Fee: \$4 per person (group rate), plus group admission. School groups by reservation



Science Playground

Outdoors, weather permitting

Get lost in your imagination as you climb up, slide down and scamper over the country's largest science playground.

This exhibition invites whole body participation: giant slides, a water play area, a light-activated kinetic sculpture and more!

The *Science Playground* also features early childhood exhibits. Mirrors, sand and music are just some of the new paths to discovery that visitors can choose from. Crawl through timber obstacle climbers, play in a giant bird's nest, build, sift and pour in different sand boxes and explore the music and sounds in nature.

Topics:
motion, light, sound, energy and power

Session:
45 minutes

Available:
March 1 – December 30
(weather permitting)

Fee:
\$3 per person (group rate),
plus group admission

The *Science Playground* is presented by Con Edison



Science Technology Library

Street Level, North Wing

Browse this multimedia library's extensive collection of books, videos, lesson plans, science experiment ideas, magazines, computer software programs, Internet access and a comprehensive

Teacher Resource Center. Members have borrowing privileges for most materials. For more information, please call 718-699-0005 ext. 340.

The Search for Life Beyond Earth

Street Level, North Wing

This exhibition compares environments on Earth, Mars and Europa, and demonstrates some of the organisms that live in extreme environments on Earth. Explore how newly-acquired knowledge about the harsh environments that organisms survive and flourish in on Earth is informing our search for life in the universe.

Seeing the Light

Street Level, Central Pavilion

Journey into the world of color, light and perception with over 80 exhibits. Discover how the eye works, explore optical illusions and learn how we perceive the world around us.

The Sports Challenge

Upper Level, North Wing

The Sports Challenge focuses on the science behind sports with super-interactive challenges and live sport demonstrations. Visitors test their skills at baseball, surfing, tennis, drag-racing and rock climbing. Each challenge facilitates the understanding of the science, then invites visitors to compete with themselves or others to improve their skill and score.

The *Sports Challenge* is presented by



TRAVELING EXHIBITIONS

The Math Midway

Winter 2010

This exhibition provides a hands-on tour of mathematical concepts using activities that relate math principles to games and events that you would find at a typical carnival or fair.

Amazon Voyage: Vicious Fishes & Other Riches

June 19 – August 29, 2010

Learn about piranhas, catfish, sting rays, electric eels and muckfish in this interactive exhibition that explores life in the Amazon River.

SCIENCE/ART GALLERY EXHIBITIONS

Walter LeCroy Gallery

DIGITAL'09: Science Mysteries

October 3, 2009 – January 31, 2010

11th-annual Digital Print Competition/Exhibition by Art & Science Collaborations, Inc. (ASCI).

Images from Science: The Photographs Rochester Institute of Technology

March – May 2010

View images created for the purpose of recording scientific and engineering endeavors such as oceanography, geology, biology, engineering, medicine and physics.

Art in Science/Science in Art

June – August 2010

A juried exhibition of images made by University of Colorado-affiliated scientists and artists.



SCIENCE/ART GALLERY EXHIBITIONS

Con Edison Ramp Gallery

Olympus Bioscapes 2008 International Digital Imaging Competition

August 8 – October 31, 2009

Microscopic images of life science subjects

Nikon Small World: Exploring the Beauty of Science

35th Photomicrography Competition/Exhibition

November 7, 2009 – February 23, 2010

The photographs exhibited showcase the beauty and complexity of the life sciences, bio-research and materials science.

International Science & Engineering Visualization Challenge Exhibition: Images from 2006 – 2008

March 2 – May 31, 2010

An exhibition co-sponsored by the National Science Foundation and AAAS's journal *Science*.

Daily Demonstrations

- Air Play
- Cool Chemistry
- Cow's Eye Dissection
- Flight
- Lasers & Optics
- Living In Space
- Mathematics
- Science of Sports
- Steam Engine
- Video Microscope



Student Programs & Activities

STUDENT SCIENCE WORKSHOPS

Student workshops can help to enrich the New York City (NYC) Science Core Curriculum/Scope and Sequence, and meet the New York State and National Standards. Call 718-699-0301 for more information.

Session:

45 minutes; maximum: 32 children

Fee:

\$175 per group in addition to group admission fees

All student workshops can be modified to suit your curricular needs, pending prior consultation with NYSCI staff. Custom programs can be developed for an additional one-time fee of \$500.

Classy Classification

Grades K – 2

K–2/NYC Unit 3- NYS LE 3.1a and 3.1b

Classification:

Delve into the fascinating world of insects! Become an entomologist and learn how to classify different insects. This workshop provides a solid foundation for learning the principles of classification.

Mixing Color

Grades K – 2

K–2/NYC Unit 1- NYS PS 3.1 and 3.2

Color: Predict what will happen when mixing primary colors through a series of experiments. Make and take home decoupage artwork. This workshop relates to the light and color components of the *Seeing the Light* exhibition.



Cookie Caper Mystery

Grades K – 2

K–2/NYS Stand. 1

Observation Skills:

Solve who stole the cookies by examining different clues that were left behind. Compare fingerprints and footprints, and use magnifying lenses to analyze residue evidence. Take home your own magnifying lenses.

Five Senses

Grades K – 2

K–2/NYS Stand. 1

Observation Skills:

Learn how our five senses work together to perceive information in the world around us. Students participate in hands-on activities that allow them to observe and draw conclusions about the different senses.

It's a Small, Small World

Grades K–2

K–2/NYC Unit 3- NYS LE 1.1, 2.1, 3.1a and 3.1b

Small things:

See the very small through magnifying lenses and microscopes. Learn to look for tiny details. This workshop is a good introduction to classification and ties in to the *Hidden Kingdoms* microbiology exhibition. Take home your own magnifying lens.

Designer Genes

Grades 2–4

Grade 2/NYC Unit 3

Grade 3/NYC Unit 4

Grade 4/NYC Unit 1 NYS LE 2.2, 5.1

Genetics:

Can you roll your tongue and wiggle your ears? Compare those traits to those around you. Build your chromosome map with traits that are unique to you!



Reflecting on Mirrors

Grades 2–4

Grade 3 NYC Unit 2/ NYS Stand. 1, PS 4.1

Mathematical Symmetry:

Enter the realm of the looking glass. Experiment with light reflection and symmetry by predicting laser bounces. Assemble your own kaleidoscope or magic box.

Journey into Microspace

Grades 3–5

Grade 3 and 5 NYC Unit 4,

Grade 4 NYC Unit 1 NYS LE 6.1

Microbiology:

Use microscopes to investigate the micro world of protozoa and algae. Prepare slides to observe and analyze the shapes and colors of microbes and how they move and feed. Investigate the mathematical relationship of field of view and magnification. Take home your own magnifying lens.

Bounce, Balance and Play

Grades 3–6

Grade 2 NYC Unit 1/NYS PS 5.1 and 5.2

Grade 3 NYC Unit 2/NYS PS 4.2

Grade 6 NYC Unit 1/NYS PS 4.1

Sports & Physics:

Test your balancing skills while you discover how balance is related to sports. Observe the relationship between kinetic and potential energy. Investigate the shape and composition of various balls to see what makes them bounce, fly or roll as far as they do.

The Eyes Have It

Grades 3–7

Grade 3 NYC Unit 2/NYS PS 4.1 and 4.2

Grade 4 NYC Unit 2/NYS PS 4.1

Grade 6 NYC Unit 3/NYS PS 4.1

Grade 7 NYC Unit 2/NYS PS 4.1 and 4.4

Human Eye and Illusions:

Unveil the world of 3-D perception with the aid of color filters. Make your own 3-D glasses and create optical illusions.

Science Detective

Grades 4–6

Grade 4 NYC Unit 4/

Grade 5 NYC Unit 1/

Grade 7 NYC Unit 3/ NYS Standard 1 and 2

Logic & Puzzles:

Solve a crime using clues, fingerprints, paper chromatography and coded messages. Make your own alphabet wheel to compose and decode secret messages.

Float, Sink or Flink

Grades 4–8

Grade 4 NYC Unit 4/NYS PS 2.1

Grade 5 NYC Unit 1/

Grade 7 NYC Unit 2/NYS PS 4.1 NYS

Standard 1 and 2 NYS ILSE exam prep

Density:

Observe the properties of mass, volume, density and buoyancy in a fun activity-based lesson. Classify objects that float, sink or flink. Make a hydrometer to measure the density of various unknown liquids.



Push, Pull, Yank and Crank

Grades 4–8

Grade 6/NYC Unit 1 NYS PE 4.1 - 5.2

Simple Machines:

Define force, weight and work. Experiment with simple machines such as levers, pulleys and wheels to determine the qualitative and quantitative relationship that exists between force and work.

Decaying Science!

Grades 4–8

Grade 4/NYC Unit 3 and 4/

Grade 5 NYC Unit 4

Grade 6/NYC Unit 3 and 4

Grade 7/ NYC Unit 4

Grade 8/NYC Unit 2 NYS LE 5,6 and 7

Decomposition & Environment:

Discover the causes of decomposition. Experiment with various materials and environmental conditions and make predictions about decomposition rates. Make and take home a bottle composter.

Color My World

Grades 4–8
Grade 4 / NYC Unit 2
Grade 5 / NYC Unit 1
Grade 7 / NYC Unit 2 NYS PS 3 and 4

Light & Color:

Examine the mysteries of color and light. Under unique lighting conditions, solve color mysteries and create secret messages. Make and take home your own spectroscope.

Extraterrestrial Expeditions

Grades 4–8
Grade 4 / NYC Unit 4
Grade 5 / NYC Unit 2
Grade 7 / NYC Unit 1
Grade 8 / NYC Unit 3 NYS PS 1.1a-c, j

Astronomy:

Take a tour of the solar system! Learn about the eight planets and their individual characteristics while “virtually” traveling from Mercury to the dwarf planet Pluto. Explore prominent satellites and discuss the search for life beyond our planet.

Green Chemistry

Grades 5–9
Grade 5 / NYC Unit 4
Grade 6 / NYC Unit 3 and 4
Grade 7 / NYC Unit 4
Grade 8 / NYC Unit 2 NYS LE 1.1 and 5.1

Chemistry & Environment:

Measure the acidity and alkalinity of different liquid samples. Discover how organisms respond to changes in their environment by participating in a group experiment.

The Reasons for Seasons

Grades 5–12
Grade 5 and Grade 6 / NYC Unit 2
Grade 7 / NYC Unit 1
Grade 8 / NYC Unit 3 NYS PS 1.1i

Astronomy & Weather:

Predict rising and setting positions of the sun in the Astronomy Discovery Lab 6 and explore factors that contribute to seasonal change.

Mineral Madness

Grades 6–10
Grade 7 / NYC Unit 1 / Earth Science Unit 3 NYS PS 2.2

Mineral Investigations:

Sharpen observation skills while learning about minerals and how they are classified. Sort through the many properties that make up the earthly materials that surround us.

Ecosystemology

Grades 6–10
Grade 6 / NYC Unit 3-4
Grade 7 / NYC Unit 4
Grade 8 / NYC Unit 2 LE Unit 3 NYS LE 5.1, 5.2

Environmental Science:

Investigate the roles of both living and non-living components of a land ecosystem such as soil, microbes, plants and water. Create a mini-biosphere (self-sustaining environment) to take back to your classroom.

Microbes in Focus

Grades 6–10
Grade 6 / NYC Unit 3
Grade 7 / NYC Unit 4
Grade 8 / NYC Unit 2 / LE Units 2-5 NYS LE 5.1, 5.2

Microbiology:

Get a little closer to the microbial world with microscopes and living organisms. Find out what it means to magnify and resolve an image, how we classify living things, and how to identify some of the parts and functions of single-celled organisms.

D–N–Amazing

Grades 6–12
Grade 6 / NYC Unit 3
Grade 7 / NYC Unit 4
Grade 8 / NYC Unit 1 / LE Unit 7 NYS LE 2.1, 2.2

Genetics:

Discover the shared chemistry that exists among living things. Participate in an activity demonstrating how the same units of DNA lead to the diversity of living things. Isolate and take home your own DNA.

Forensics Frenzy

Grades 7–10
NYC LE Unit 1 / NYS Inquiry strand Standards 1, 2, 6, 7 IPS-Standard 7

Critical Thinking:

Use critical thinking strategies and forensic science techniques to solve a mystery. Examine trace evidence to record and interpret data in order to formulate

a conclusion. Materials are provided to continue debate back in the classroom.

Powerful Polymers

Grades 7–12
Grade 7 / NYC Unit 2 / NYC Chem Units 2 & 4 / NYS PS 3.3

Molecular Chemistry:

Explore the molecular world of cross-linked polymers. Discover how atoms form molecules and monomers and how they link to form amazing organic and inorganic polymers. Make your own cross-linked polymer to take home.

Color My World Too!

Grades 9–12
NYS PS 4.1d, 4.4a, 4.4b

Light & Color:

Experience an in-depth examination of the mysteries of color and light. Under unique lighting conditions, solve color mysteries, and create secret messages. Design and learn to use a spectroscope with different light sources.





EXTENDED LEARNING SERIES

Extend your students' learning experience with a two-hour, one-day workshop or a series of multiple day workshops that are tailored to meet the needs of your pacing calendar and enrich the NYC Science Scope and Sequence. Theme-related exhibit investigations are incorporated to enhance each science concept.

For more information, call 718-699-0005 ext.596.

Session:

2 - 2.5 hours; maximum: 32 children

Daily Fee:

\$550 per group (admission included)

Topics include but are not limited to:

Marvelous Machines

Grade 6; NYC Unit 1

Explore the concepts of potential and kinetic energy as applied to simple or complex machines. Design and build your own roller coasters or Rube Goldberg machine.

Diversity of Life

Grade 5; NYC Unit 4

Grade 6; NYC Unit 3, Unit 4

What makes something "alive" and what are the conditions that support life? Explore the strange world of real microbes under a microscope and classify living things in their biomes. Create your own closed "ecosystem" that you can take home.

Wiring a House

Grade 7; NYC Unit 2

Become an electrical engineer and design and "wire" your own model house.

Discover the interaction between matter and energy and how electric current moves through conductors to "power" different appliances in your home.

Water Works

Grade 4; NYC Unit 3

Learn the stages of the water cycle and create a model of a watershed that illustrates the natural processes by which water is recycled on Earth. Investigate how pollutants can be absorbed into bodies of water and the importance of clean water.

Astronomy Adventures

Grade 8; NYC Unit 3

Explore the phases of the moon and how the relationship between the sun and Earth affects our seasons. Observe celestial objects including the constellations and their mythology.

Rockin' Rockets

Grade 8; NYC Unit 2

It really is rocket science! Apply Newton's Laws of Motion to design, build and launch your own rocket. Experiment with the different factors that affect the flight of a rocket.

PRESCHOOL WORKSHOPS

Ages:

3-6

Session:

45 minutes; maximum: 25 children

Fee:

\$50 per group, plus group admission fees

Reservations:

718-699-0301

Location:

MetLife Foundation Learning for Life
Discovery Lab 3 (except where noted)

Garbagen@

Earth Science

Garbagen@, our queen of recycling, lives in a garbage can and invites younger children to examine what it means to reduce, reuse and recycle. Children become "garbologists," and are introduced to environmental topics in a hands-on and engaging way. Students will decorate their own energy audit journal to take home.



Meet Stuffee™

Life Science

Join us and meet Stuffee, our popular 7-foot-tall soft doll! Unzip his tummy to witness the journey of digestion, investigate how breathing works, explore the wonders of the heart, and more in this interactive presentation. Afterwards, color your own heart-health medal to bring back to school.

Larry Cat in Space™

Earth Science

Larry the cat lives with a family of humans who love looking at the night sky through their telescope. Join Larry in this full-dome, video presentation as he goes on an amazing adventure to the moon. Follow along on his travels as he learns about scientists, lunar craters, and what life might be like for a cat in space. This program takes place in the Astronomy Discovery Lab 6.

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VIRTUAL VISITS

Visit and interact with the New York Hall of Science from your school or learning center using the latest videoconferencing technology. The Virtual Visit connects your class with NYSCI educators, providing a rich, interactive science learning experience.

Sessions:
average 45 minutes;
maximum capacity: 35 children

Fee:
Virtual Visit Demonstration \$75
Virtual Visit Class \$125
Virtual Visit Unit \$200

Custom programs can be developed for additional one-time fee for \$500. We also offer limited programs themed around our traveling exhibitions.

Call 718-699-0005 ext. 348 for more information.

VIRTUAL VISIT SCIENCE DEMO

Experience our NYSCI science demonstrations with these 30-minute sessions. Virtual Visit Science Demos are available Monday – Thursday from 9 – 9:30 am and 2 – 5 pm, and on Fridays from 9 – 9:30 am. All times are Eastern Standard Time.

Chemistry Demonstration

Grades 3 – 12

Learn about the different phases of matter and the relationship between temperature and the interaction of molecules.

Laser Demonstration

Grades 4 – 9

Students will learn about lasers and their use in society, as well as light and its properties.

Magic and Science

Grades K – 4

Join the Great Osmosis: he will guide you through his secret magical laboratory and unveil the mystery of his most exciting magic tricks.

VIRTUAL VISIT CLASS

These one-session classes are 45 minutes in length and may include pre- and post-class activities.

Sophisticated Shadows

Grades K – 2

Do a little dance, have a little fun and in the process learn all about shadows. Visit exhibits and engage in activities to discover what you need to make a shadow, how to change its size, and how a shadow differs from the object that created it.

Fun with Bubbles

Grades K – 2

Can a bubble be a shape other than a sphere? Make your own bubbles while learning what makes a bubble, why they maintain their shape and the various colors a bubble can be.

Illustrious Illusions: Secrets Revealed!

Grades K – 3

Investigate and explore the mystery behind several illusion exhibits and get the opportunity to make some of your own.

Journey Inside The Eye

Grades K – 3

Ever wonder what is going on behind your eye? How are you able to see color? While watching a live cow's eye dissection as well as engaging in several activities, students will have these and many other questions answered.

Nanoscience: Atomically Engineering our Future

Grades 6 – 12

Discover how scientists and engineers have been working on manipulating material on the nano-scale to create and develop different types of inventions that you may even own.

VIRTUAL VISIT UNIT

These expanded programs include two video conferencing connections, an expanded post-activity project extension, and possible web-based collaboration with NYSCI and other classes.

Hidden Kingdoms: The World of Microbes

Grades 4 – 9

From inside food to inside your nose, discover how microbes are part of our daily life.

Search For Life

Grades 6 – 12

Explore Earth's most extreme environments and the possibility of life on other planets!

Mathematica: Beyond Numbers

Grades 6 – 12

Math is everywhere; patterns and relationships exist all around us, all the time. Come and explore the concepts of math in our everyday lives.

Sports Challenge

Grades 4 – 9

Why do balls bounce? How does a surfer stay on board? Explore the science of sports through classroom activities and demonstration of our exhibits.

System Science: Intro to Networks

Grades 6 – 12

Networks deal with more than just computers and the Internet. Examine how different social, biological and social networks operate as well as their benefits to society.

Playground Science

Grades 3 – 6

See how certain simple machines come together to make some of your favorite playground exhibits such as the Archimedes Screw, Giant Lever and Giant Seesaw.

SCIENCE ASSEMBLY PROGRAMS

School Assembly Programs for Grades Pre-K – 2 Ages 4 – 8

Session:
35 minutes (max 150 students)

Fee:
\$500 per show
(additional shows on same day \$250 each;
maximum of five shows per day)

Reservations and information:
718-699-0005 ext. 348

Garbagena® for Assembly Earth Science

Garbagena, our queen of recycling, lives in a garbage can and invites younger children to examine what it means to reduce, reuse and recycle.

Meet Stuffee™ for Assembly Life Science

Join us and meet Stuffee, our popular 7-foot-tall soft doll! Unzip his tummy to witness the journey of digestion, investigate how breathing works, explore the wonders of the heart, and more in this interactive presentation.

Is there a program not listed here but in another section that you are interested in for your assembly program? Would you like us to create a program to match your curriculum? Programs can be developed for an additional one-time fee of \$750. For more information, call 718-699-0005 ext. 343.

AFTER-SCHOOL SCIENCE OUTREACH

Enrich your after-school program by incorporating hands-on science activities performed by NYSCI instructors.

Each outreach session provides an interactive age-appropriate science experience that meets the New York City Science Scope and Sequence, New York state and national standards.

All materials are provided. Up to three consecutive sessions can be reserved from 3 – 6 pm.

Please view the list of available topics in our Outreach Lesson Modeling section under Professional Development.

Fee:
\$550
(includes up to three sessions in one day)

Reservations and information:
718-699-0005 ext. 596



Student Activity Areas Available for groups by reservation



Honeybees

Life Science, ages 3 – 6

Explore the life of the amazing honeybee. Learn how and why honeybees make honey. Find out how bees communicate through “bee dances.”

Music and Sound

Physical Science, ages 3 – 6

Learn how the sounds we hear are really vibrations. Use rhythm instruments to make different sounds, and play the beat to accompany a favorite song.

Butterflies

Life Science, ages 3 – 6

Take a close look at the bodies of a caterpillar and a butterfly. Explore the lifecycle of butterflies.

PRESCHOOL PLACE STUDIO

Choose one of the activities listed on the right and enjoy a 20-minute guided activity, along with 25 minutes of free time in Preschool Place Studio.

Ages:
3 – 6

Session:
45 minutes; maximum: 25 children

Available:
Monday – Thursday, 10 am – 1 pm;
Friday, 10 am – 2 pm

Fee:
\$50 per group plus NYSCI admission
Sessions include free-play time in Preschool Place Studio.

Reservations:
718-699-0301

Nuts About Squirrels

Life Science, ages 3 – 6

We see them everywhere, but how much do we know about these terrific creatures? Find out how squirrels eat and live, and go on an acorn scavenger hunt.

Inside Our Bodies

Life Science, ages 4 – 6

Take a journey inside the human body, as we explore breathing, eating, bones, and more!

Dino Hunt

Earth Science, ages 4 – 6

Learn about different dinosaurs and how fossils are formed. Become a paleontologist as you find parts of a kid-friendly fossil and help piece together a mystery dinosaur.

SCIENCE TECHNOLOGY LIBRARY

Science Literacy Workshops

Grades K – 2

Visit the Science Technology Library for a view of science through literacy. Each session includes an interactive storytelling experience and an activity that enhances the students' understanding of a science concept.

Topics include:

Camouflage
Classification
Ecosystems
Five Senses

What's Your Topic?

Grades 3 – 8

Having trouble getting your class to pick topics for the science fair? Choosing a topic for a science project is more involved than most students believe. Brainstorming, research skills, and understanding time and material constraints can be crucial to the success of a science project. We will walk the students through



these tough concepts with the aim of having a topic for their science project at the end of the workshop.

Session:

45 minutes; maximum: 30 children

Hours: Monday – Friday, 10 am – 1 pm

Fee:

\$150 per group

Reservations:

718-699-0301

HANDS-ON DISCOVERY LABS

MetLife Foundation Learning for Life Discovery Lab 3:

Science Craft Session

Choose from: Fluttering Butterfly, Kaleidoscope, Magic Box, Climbing Spider, or ask about our current seasonal projects.

Ages:

4 – 17

Session:

20 minutes; maximum 20 children

Fee:

\$2 – 2.50 per project

Reservations:

718-699-0301



Pfizer Foundation Biochemistry Discovery Lab 1

Ages 7 & older

Discover how molecules and chemical reactions are involved in your everyday life. Conduct experiments at 12 biochemistry lab stations to find out how an antacid works, why holes are found in bread, and more!

Session:

45 minutes; maximum: 32 children

Hours:

Monday – Friday, 10 am – 12:30 pm

Fee:

\$75 per group

Reservations:

718-699-0301

Astronomy Discovery Lab 6

Ages 8 & older

Delve into the world of space science and immerse yourself in the evening starry sky. Each session includes an interactive small group planetarium presentation. Each child will learn how to use and take home an 8 ½-by-11 inch star map.

Session:

30 minutes; maximum: 32 children

Hours:

Monday – Friday, 10 am – 12:30 pm

Fee:

\$75 per group

Reservations:

718-699-0301

Astro-Chemistry Discovery Lab 4

Ages 8 & older

What molecules do all living things on Earth have in common? If these molecules are found on Mars or Venus does that mean there could be life there? Conduct experiments at six astro-chemistry stations to explore these questions and more about the possibility of life in our solar system.

Session:

30 minutes; maximum: 32 children

Hours:

Monday – Friday, 10 am – 12:30 pm

Fee:

\$50 per group

Reservations:

718-699-0301

Professional Development

NYSCI offers both pre-existing and customized training programs for teachers, administrators, and after-school practitioners—empowering them to become leaders and providing them access to exhibits, tools, NYSCI's Science Technology Library and more!

OUTREACH LESSON MODELING

A NYSCI instructor models an interactive, inquiry-based lesson that you can incorporate into your academic repertoire. Follow-up activities are provided.

Literacy and mathematics are stressed throughout the programs. Programs can be customized to meet your requirements—including special needs, gifted and talented, pre-school and bilingual students—pending prior consultation upon booking.

Sessions:

Up to four 40- to 60-minute lessons per class of 32 students per day

Fee:

\$550/day

Reservations:

718-699-0005 ext.303



Bubble, Bubble

Grades Pre-K–2

Experiment:

Make bubbles using only water! Then add soap to make longer-lasting bubbles. Investigate the shapes of bubbles by using different wands. Finally, create bubble art!

Sporty Nutrition

Grades K–2

Health & Nutrition:

What should I eat today? Investigate how different foods give you the vitamins, minerals and nutrients required for good health. Students will participate in different activities to explore and understand our dietary nutritional needs and make and take home a nutrition wheel.

Oobleckian Science

Grades K–2

Scientific Method and Literacy:

Experience solids, liquids and gases as you investigate a substance called Oobleck. Following a storytelling session, each student will make their own Oobleck and relate it to the story.

Observe, Record, Predict

Grades K–2

Scientific Method and Literacy:

Delve into the world of science and explore the scientific method. Children learn to become scientists as they observe, record and predict in a series of experiments. Measurement skills are stressed.

Stuck on Magnets

Grades K–2

Magnets:

Can you predict what happens when two magnets are brought together? Find out and explore other properties of magnets through a series of hands-on activities. This workshop exercises classification and measurement skills.

Classy Classification

Grades K–2

Classification:

Delve into the fascinating world of insects! Become an entomologist and learn how to classify different insects. This workshop provides a solid foundation for learning the principles of classification.

Bright Ideas

Grades 3–6

Light:

Learn how light can be produced and become familiar with some of its properties. Experiment with reflection, refraction, diffraction and absorption.

All Charged Up

Grades 3–6

Electricity:

Discover how electricity is produced. Experience the powerful electric field of an electrostatic generator. Design and build simple circuits. Experiment with conductors and insulators.

More Than Magnifiers

Grades 4–7

Lenses:

Find out how lenses can work separately and together. Explore the concept of refraction and use rulers to determine focal points of convex and concave lenses.

Micro-Madness

Grades 5–9

Microbiology:

Using high-quality portable microscopes, explore the fascinating world of animals and protists. Find out what it means to magnify and resolve an image, how we classify living things, and how to identify some of the parts and functions of single-celled organisms.





Delicious DNA

Grades 5 – 9

Genetics:

Discover the shared chemistry that exists among living things. Participate in an activity demonstrating how the same units of DNA lead to the diversity of living things. Isolate and take home the DNA from a strawberry or a banana.

Cool Craniums

Grades 6 – 10

Life Science:

Explore how animals adapt to their environments. Study, sort and classify the form and function of a variety of mammal skulls. Investigate how to apply these techniques to identify a mysterious skull.

Powerful Polymers

Grades 7 – 12

Molecular Chemistry:

Explore the molecular world of cross-linked polymers. Discover how atoms form molecules and monomers and how they link to form amazing organic and inorganic polymers. Make your own cross-linked polymer to take home.

Is there a program not listed here but in the student programs section that you are interested in? Would you like us to create a program to match your curriculum? Programs can be developed for an additional one-time fee of \$750. For more information, call 718-699-0005 ext. 303.

MULTI-DAY SESSION TEACHER TRAINING & RENTAL PROGRAMS

MicroLab, StarLab™, BioTechLab and CSIT Lab provide integrated lessons and equipment training for classroom use at a variety of grade levels. Each program includes teacher training and certification to rent the kits. No previous knowledge or special technical skills are required. Teachers will become empowered in the use of educational science resources in their classrooms. Multi-day teacher professional development allows the participants to feel comfortable, confident and competent at using the curriculum and materials back in their own classrooms. Participants receive a complimentary one-year Educator's Membership to NYSCI, which includes free admission, free parking and Science Technology Library borrowing privileges. Special arrangements can be made to teach the training program at your site.

P-credit and graduate credit in education is available with additional hours and project.

For more information, please contact 718-699-0005 ext. 303.



STARLAB™

Educators who teach all grades

Engage in activities designed to teach rudimentary astronomy. Learn to operate the StarLab projector, inflate the portable planetarium and create lessons. Curriculum incorporates mathematics, literacy and social studies. Upon completion, participants become certified to rent the StarLab Rental Kit.

Session:
18 hours (30 hours for p-credit)

Dates:
October 3, 10, 17, 2009 9 am – 4 pm
(Saturdays p-credit not available)

July 27 – 29, 2010
(including July 30 and 31 p-credit only)
9 am – 4 pm

Fee:
\$350 per person
Credits: 3 p-credits available
(with additional fee, days and project)

Please visit www.nycenet.edu/aspdp to register for p-credit.



**NEW Hands-On Science Series:
Fun With Biology — Science Core
Curriculum Enrichment Training**

This course provides specific instruction and training for the Life Science/ Living Environment activities within the Scope & Sequence, providing teachers an opportunity to receive additional science content, extensions and further applications of the Science Core curriculum kits to their classroom. This class utilizes a hybrid course environment of traditional face-to-face instruction and on-line instruction to support science instruction and enhance professional development for the NYC Science Core Curriculum as it relates to the topics in physical science from grades K–8. This hybrid course environment is aligned to the NYC Science Scope and Sequence for all grades. This course strategy can provide the flexible support that teachers need to become confident

doing hands-on physical science activities needed to enhance science teaching and learning in the classroom.

The web-enabled tool set will be a combination of synchronous tools like chat, and video and asynchronous tools, like e-mail, webinars and threaded discussions, which will lead to more instructional support.

Session:
30 hours (p-credit available)

Dates:
November 7 – December 12, 2009.
Face-to-face and web-enabled hybrid course

Fee:
\$150 per person

Please visit www.nycenet.edu/asdpd to register for p-credit.

MICROLAB
Educators who teach all grades

Navigate through the world of microbes using interactive microbiology lessons. Learn to use a video microscope (CCD and gooseneck), grow live microbe cultures, identify bacteria, fungi, protists, use O₂ and CO₂ sensors and much more. This training will help you prepare students for the New York state 4th and 8th grade tests in science. Mathematical applications are highlighted throughout the training. Completing the four-day program enables participants to rent the Microbiology Rental Kit. Enhance your high school and middle school life science curriculum by requesting additional activities.

Session:
20 hours (30 hours for p-credit)

Dates:
February 15 – 17, 2010 (including February 18 & 19 p-credit only) 9 am – 4 pm

August 10 – 12, 2010 (including August 13 & 14 p-credit only) 9 am – 4 pm

Fee:
\$350 per person

Credits:
3 p-credits available
(with additional fee, days and project)

Please visit www.nycenet.edu/asdpd to register for p-credit.

BIOTECHLAB
For Middle and High School Educators

Learn how genetically modified organisms (GMO) are created. During this course, you will learn how to use NYSCI's Biotechnology Classroom Rental Kit by participating in a variety of hands-on activities. Become familiar and excited about studying the DNA molecule and how it relates to molecules and health, learn how to run a gel electrophoresis and even solve a bio-terrorist mystery. Upon completion, participants become certified to rent the BioTechLab Kit.

Session:
20 hours (30 hours for p-credit)

Dates:
December 28 – 30, 2009
(p-credit not available)
9 am – 4 pm

July 22 – 24, 2010
(including July 20 & 21, 2010 p-credit only)
9 am – 4 pm

Fee:
\$350 per person

Credits:
3 p-credits available
(with additional fee, days and project)

Please visit www.nycenet.edu/asdpd to register for p-credit.

NEW! CRIME SCENE INFORMATION TECHNOLOGY

CSIT Lab — for Middle and High School Educators

CSIT is a new NYSCI initiative funded by the National Science Foundation. The project puts computers and other digital tools into New York classrooms within a context where inquiry-based, STEM learning is supported. The forensic science modules are made up of mix-and-match lessons that incorporate a variety of technologies into hands-on activities that correlate to the New York state standards for 7th and 8th grade science, and Regents courses in Living Environment, Chemistry, Physics and Earth Science.

Mystery modules are also appropriate for teaching in the context of a forensic science elective course. Along with the curriculum, the teacher uses portable technology labs that contain a class set of computers and other digital equipment. Once certified, teachers will bring this equipment back to their classrooms for students to use to solve the mysteries. Upon completion, participants become certified to rent the CSIT Lab Kit.

Session:
20 hours

Dates:
August 3 – 5, 2010 9 am – 4 pm

Fee:
\$350 per person

ONE-DAY PROFESSIONAL DEVELOPMENT PROGRAMS

Add a new dimension to your professional development days. Choose from the topics below or customize your own. For more information, please contact 718-699-0005 ext. 303.

All professional development participants receive a complimentary one-year, individual Educator's Membership to NYSCI, which includes free admission, free parking and Science Technology Library borrowing privileges.

The programs listed below focus on science content and pedagogy. Interactive hands-on activities are coupled with inquiry to provide educators with new techniques, ideas and access to resources.

Special arrangements can be made to teach the program at your site.



PRE-VISIT STAFF DEVELOPMENT CONFERENCE: PREPARING FOR YOUR FIELD TRIP

Educators who teach grades K – 12

This workshop offers an introduction to NYSCI and its resources for effective field trips and the enrichment of classroom lessons. Introduction to the Science Technology Library, a multimedia library, and how it can be useful to students is incorporated into this workshop.

Session:
full day; maximum: 20

Fee:
\$1,200 per group, includes Educator's Membership, exhibit tour, take-home materials, continental breakfast and lunch. For dates and times call 718-699-0005 ext. 303.

Field Trip Inclusion Package:
Book a pre-visit conference and each teacher who participates in the Field Trip Pre-Visit Staff Development Conference (see above) can receive a credit towards one field trip day for their class of 32 students to visit at some later date during the school year.

Fee:
\$250 per participant, which includes all of the above, plus one class trip for up to 32 students.



8TH GRADE EXIT PROJECT/ SCIENCE FAIR TRAINING

Educators who teach grades K – 12

Learn how to use NYSCI as a resource for prompting ideas for science projects. NYSCI instructors will model sample hands-on lessons so teachers can become comfortable with science concepts and familiar with the methods necessary to facilitate a long-term science investigation. Instructors will also discuss different lessons that can be conducted with students to reinforce those concepts.

Session:
full day; maximum enrollment: 20

Fee:
\$1,200 per group, includes materials and the support necessary to create a classroom or school-wide science fair, Educator's Membership and continental breakfast and lunch. Science fair manuals are available for an additional \$20 per person.

For dates and times call 718-699-0005 ext. 303.



CUSTOM-DESIGNED WORKSHOPS FOR THE NEW YORK CITY SCIENCE CORE CURRICULUM

Science Educators who teach all grades

Design your own workshop to meet your professional, school or district requirements. Workshops may cover topics such as core curriculum kit training (FOSS, PBIS and Harcourt), professional development for 4th and 8th grade New York state tests in science, science content workshops, etc.

Session:
full or half-day; maximum enrollment: 20

Fee:
\$1,200 (full day); \$700 (half day) per group, includes Educator's Membership, continental breakfast and/or lunch). Workshops may be done off-site for an additional cost.

For dates and times call 718-699-0005 ext. 303.

UFT-SPONSORED PROGRAMS

NYSCI works in conjunction with the United Federation of Teachers to offer a variety of graduate credit classes and p-credit courses. Teachers who complete one of these programs will receive a complimentary one-year Educator's Membership to NYSCI, which includes free admission, free parking and Science Technology Library borrowing privileges. Please consult your UFT publications or the NYASPDP website for listings or call 718-699-0005 ext. 303.

TEACHER-IN-RESIDENCE PROGRAM

Considering a sabbatical? Explore the opportunity to work with NYSCI educators by becoming a teacher-in-residence. Learn innovative museum teaching techniques and partner with educators while applying your experience to design high-quality programs. You can obtain credit through Lehman College to meet requirements. For more information, call 718-699-0005 ext. 303.

PARENT/CHILD WORKSHOP

Learning Opportunities for Home School and Family Learning Groups

Parents and caregivers can share in their child's learning experiences by participating in an interactive science workshop. NYSCI staff introduces easy-to-do experiments that can be replicated in the home. Choose from a variety of science topics as seen in this catalogue. Reservations are required. For more information, call 718-699-0005 ext. 320.



Rental Kits

WHAT IS A RENTAL KIT?

Educators are expected to provide hands-on lessons, yet many of New York City's classrooms are not equipped with the tools needed to teach the activities. NYSCI has four kits that cover a range of topics. Each kit contains equipment and expendable materials for a class of 32. Extra materials are available upon request.

KITS AVAILABLE:

StarLab

All Grades

Give your students the opportunity to learn constellations in a portable planetarium. A StarLab Rental Kit contains an inflatable portable planetarium that fits easily into any car. Inflated, the unit fits into spaces 23 feet in diameter and 11 feet high.



MicroLab

All Grades

Introduce the world of microorganisms to your students with live microbe cultures and microscopes. A MicroLab Rental Kit contains a set of 15 field microscopes, a video microscope, live microbe cultures (\$25 additional fee), and other expendable materials. Additional equipment for rental include four gooseneck video microscopes, four laptops, and temperature, O₂ and CO₂ sensors.

BiotechLab

Grades 7–12

Want to get your students excited about studying DNA, running a gel electrophoresis, or even cloning bacteria that glow under UV light by inserting a glow gene? This kit features eight dual electrophoresis units, four power supplies, variable micropipettes, and a dual water-bath. It also includes an incubator as well as all the reagents and expendable materials for each investigation (up to a class of 32). \$50 additional fee for live bacterial and Daphnia culture.



RENTAL KIT FEES

Program	Weekly	Day 1	Day 2	Day 3	Day 4	Day 5	Each extra day	
StarLab		\$149	\$99	\$49	\$49	\$49	\$25	
MicroLab	\$225+	\$25 for live culture						\$25
BioTechLab	\$495+	\$250 materials fee per class						\$25
CSIT Lab	\$495+	\$250 materials fee per class						\$25

HOW TO RESERVE A KIT

Eligibility:

Any educator who has completed the training program that corresponds to the related rental kit (see Training Programs, page 29). To reserve a rental kit, please call 718-699-0005 ext. 348.

Pickup:

Renters are responsible for pickup and delivery of all rental kits. If pickup is difficult, consider becoming a Professional Partner.

Professional Partners:

MicroLab, StarLab, CSIT Lab and BioTechLab teachers can take advantage of our Professional Partners program. Rent the MicroLab, StarLab, CSIT Lab or BioTechLab kits for one week and include an outreach lesson model for your class. NYSCI instructors will partner with you and model lessons for your class for the first day of your rental. All outreaches include delivery of rental kits.

Fee:

MicroLab: \$600
normally \$725
(*\$500 per outreach @ \$225 weekly rental*)

BioTechLab Kit: \$1,000
normally \$1,250
(*\$500 per outreach @ \$750 weekly rental*)

StarLab: \$700
normally \$895
(*\$500 per outreach @ \$395 week rental*)

CSIT Lab Kit: \$1000
normally \$1,250
(*\$500 per outreach @ \$750 week rental*)

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