

Students improve their skills by using hands-on, minds-on learning, including interactive demonstrations and experimentations. Programs are geared to a variety of learning styles and include hands-on exploration, Q&A discussions and participatory demonstrations.

All programs are 45 minutes, unless otherwise noted.

Grade Levels at a Glance

Science Explorations	Recommended for the following Grade Levels (shaded categories)										
	Pre-K	K	1	2	3	4	5	6	7	8	9-12
Meet the Science Center											
Who Are You, Scientist?											
Wow...Bugs!											
Science Solutions											
Fun with Physics											
It's Electric											
Just a Phase											
Star Time											
MRI: Examining the Human Body											
Little Wonders of Science											
NanoWorld											
Who Did It?											
Science Circuit (Minimum 50 students)											

MST = Math, Science & Technology

MEET THE SCIENCE CENTER

All grades (New York State MST Standard 1)
 What is a science center, and how can it help us learn?
 By touring the exhibits in our galleries, students will learn about science centers, and how objects tell stories.
 Pre-K and Kindergarten tours are 30 minutes.

WHO ARE YOU, SCIENTIST?

Grades Pre-K – 2 (New York State MST Standards 1 & 4)
 Our exhibits and collections feature the work of scientists from yesterday and today. Transform yourself into a scientist and discover how scientists work. Use tools a scientist uses. Conduct a simple experiment in chromatography, and take home the colorful results.

WOW...BUGS!

Grades 1 – 3 (New York State MST Standards 1 & 4)
 What makes a butterfly an insect? Explore the amazing diversity of insects. Through a hands-on activity, students create an insect that represents basic insect biology, including adaptive color schemes.

SCIENCE SOLUTIONS

Grades 3 – 6 (New York State MST Standards 1, 3 & 4)
 Science can be fun! In this program, students make their own bouncy, stretchy putty while learning about chemistry. Individuals mix different ratios of ingredients to make the best product.

FUN WITH PHYSICS

Grades 3 – 8 (New York State MST Standards 1, 4 & 7)
 Physics is alive everywhere, even when we play. Learn how a baseball follows principles of physics, and how a bicycle tire can turn you into a human gyroscope! Through interactive demonstrations, this program explores Bernoulli's Principle, center of gravity, and other physics theories.

IT'S ELECTRIC

Grades 3 – 8 (New York State MST Standards 1 & 4)
 We all use it...but what IS it, and how does it work?
 Through the use of hands-on demonstrations, learn the basics of electricity, including the hair-raising Van de Graaf generator. Learn how electricity is generated, delivered to homes, and has changed our lives forever.

JUST A PHASE

Grades 3 – 8 (New York State MST Standards 1 & 4)
 The Moon is so close and yet our understanding may seem far away. Explore the Moon with a hands-on activity designed to show students the Moon phases through a 28-day cycle. This program is designed to describe and replicate Moon phases to uncover the Moon's mystery.

STAR TIME

Grades 3 – 12 (New York State MST Standards 1, 4 & 5)
 What time is it? Students learn ancient ways to measure time using the stars and Sun. In this hands-on program, students make and learn to use astronomical clocks.

MRI: EXAMINING THE HUMAN BODY

Grades 5 – 8 (New York State MST Standards 1 & 4)
 In this interactive tour through our new MRI exhibit, you'll explore the science behind a landmark medical imaging system developed right here in the Capital Region. Magnetic Resonance Imaging (MRI) has transformed health care and revolutionized the methods doctors use to diagnose patients. Get inside a real MRI machine! See images of the human body! Discover how MRI technology is shaping the future!

LITTLE WONDERS OF SCIENCE

Grades Pre-K (New York State MST Standards 1 & 4)
 It's never too early to explore science! This series of programs offers youngsters an opportunity to learn about basic scientific concepts. Using friendly books or television characters and hands-on activities, participants explore topics such as wind, light, or water. Requires active adult participation. *Sponsored by*



NANOWORLD

Grades 6 – 12 (New York State MST Standards 1, 3, 4, 5 & 7)
 The nano world is all around us, but we can't see it with our eyes. These interactive demonstrations explore the everyday applications of nanotechnology. Students learn just how small nano is and what it takes to work with nano size objects.

WHO DID IT?

Grades 5 – 12 (New York State MST Standards 1 & 4)
 Using science and not just instinct, your students will solve the mystery of the missing microscope. We'll conduct a fingerprint analysis and extract DNA from a banana to solve this mystery, all the while learning about the very popular topic of forensics.

