

Science News



Volume 1, Issue 7

February 2008

CALENDAR OF EVENTS

SAVE THE DATES:



The 3rd Annual Celebration of Teaching & Learning
March 7th-8th, 2008

Round Two of the New York City Science and Engineering Fair
March 10th, 2008 at the
CUNY Graduate Center

<http://collegenow.cuny.edu/sciencefair/>

Core Curriculum Showcase

March 25th and March 26th, 2008

NSTA Science Convention
Boston, MA

March 26th - 30th , 2008

Planning Guide/Pacing Calendar
Unit 3 Begins around January 29th
Unit 4 Begins around April 10th

31st Annual SCONYC Conference
Saturday, April 12th, 2008
Stuyvesant High School



If you would like to be placed on the science distribution list, please e-mail Roy Harris at RHarris2@schools.nyc.gov

The Department of Mathematics and Science

CONTACTS

LINDA CURTIS-BEY, *Director, Department of Mathematics and Science*

LCurtis@schools.nyc.gov

JOYCE VERLEY, *Secretary*

JVerley@schools.nyc.gov

JOE QUIGLEY, *Research Assistant*

JQuigley@schools.nyc.gov

SANDRA JENOURE, *Math/Science Consultant*

SJenoure@schools.nyc.gov

ROY HARRIS, *Elementary Instructional Specialist*

RHarris2@schools.nyc.gov

SHELDON YOUNG, *Middle School Instructional Specialist*

SYoung14@schools.nyc.gov

DENISE MCNAMARA, *High School Instructional Specialist*

DMcNama@schools.nyc.gov

JOHN TOM, *Urban Advantage Liaison*

JTom3@schools.nyc.gov

MARIANITA DAMARI, *Hunter College MSP in NYC Liaison*

MDamari@schools.nyc.gov

52 Chambers Street, Rm. 208
New York, NY 10007
Tel.: 212-374-0703
Fax: 212-374-5901



Check out our expanding website at:
<http://schools.nyc.gov/Academics/Science/default.htm>

We have added some important links for you:

Recommended instruction time for science
FOSS, Harcourt and Glencoe NYC Websites
All past issues of the Newsletter
Update on the planning guides
Science professional development opportunities

We have changed our design this month. Please e-mail Roy Harris and let us know your thoughts.

RHarris2@schools.nyc.gov

Mad About Raptors

New York State Parks invite 3rd and 4th grade classes to meet, greet and learn about hawks, eagles, owls, kestrels and other birds of prey in a free program offered on **May 6, 2008** at Empire Fulton Ferry State Park under the Brooklyn Bridge in Brooklyn and on **May 7, 2008** at Riverbank State Park at 145th Street and Riverside Drive in Manhattan. The programs will be offered at 10:00, 11:00, 12:00 and 1:00 and we would like to encourage early registration for the date and time of your choice. Please note that the programs will take place outdoors, unless bad weather requires us to move indoors.



We encourage your students to bring bag lunches and enjoy the park either before or after the raptor program.

Please register by calling New York State Parks and Recreation NYC Region at (212) 866-2740.

“The Angelo Del Toro” Scholarship for High School Seniors 2008

Open to seniors enrolled in a NYS registered public or non-public school who have already applied to college. Candidates must also attend the Hispanic Leadership Institute, to be held in Albany (April 26-April 28), have overall satisfactory academic standing (transcript requested), essay and three letters of recommendation.

Puerto Rican/Hispanic Youth Leadership Institute Scholarship Committee – Deadline: April 4, 2008

There will be Twenty \$500 scholarships. For further information and the application, please contact Denise McNamara at dmcnama@schools.nyc.gov or (212) 374 – 0870.

Bodies NYC Essay Contest

BODIES...The Exhibition is sponsoring a School Essay Competition on Personal and Public Health, for middle and high school students. Winners are granted free admission to the exhibit for a class of 15-40 people. For further details and an application, please visit <http://ticketpro.net/USA/bodies/carts.aspx>.

National Parks Seek Teacher Rangers

National parks enrich the lives of many in this nation. They provide access to the powerful ideas, values, and meanings associated with the remarkable cultural, natural, and recreational heritage of the United States. The National Park Service (NPS) strives to provide opportunities for all Americans to connect to their national heritage through the national parks. However, these opportunities are lacking for some - often due to a variety of social and economic factors.



The Teacher to Ranger to Teacher (TRT) Program offers a solution, by linking National Park units with teachers from low- income school districts. Under this program, selected teachers spend the summer working as park rangers, often living in the park. They perform various duties depending on their interests and the needs of the park including developing and presenting interpretive programs for the general public, staffing the visitor center desk, developing curriculum-based materials for the park, and taking on special projects.

Then, during the school year, these teacher-rangers bring the parks into the classroom by developing and presenting curriculum-based lesson plans that draw on their summer’s experience. In April, during National Park Week, teacher-rangers wear their NPS uniforms to school, discuss their summer as a park ranger, and engage students and other teachers in activities that relate to America’s national parks.

For additional information about the Teacher Ranger program go to:

<http://www.nps.gov/wupa/forteachers/trt.htm>.

7th Grade Teachers – Matter and Energy Classroom Extension at NYCCSSE

7th grade science teachers!

The NYC Center for Space Science Education (NYCCSSE) has designed an experience especially for your students. Bring them to our Center to:

- * Simulate a mission to rendezvous with Comet Halley
- * Build on their understanding of matter and energy by using the electromagnetic spectrum to identify gas samples collected from the comet
- * Learn the importance of teamwork in space travel

To register for this experience, visit www.nyccsse.org and sign up for “Sun Borough – Option B.” For more information either check out our website or call (212) 608-6164.



Earth Science Teachers - Weather and Climate Curriculum and P-Credit Course

This spring, the NYC Center for Space Science (NYCCSSE) will be offering a P-credit course on the implementation of *Airplanes and the Atmosphere*, a Regents Earth Science curriculum module written by the NYCCSSE and the American Museum of Natural History (AMNH). **Participants will be given course materials, the complete curriculum (including all 24 lesson plans), and classroom supplies!**

Using an inquiry-based approach, the curriculum module is structured to systematically explore the connections between the atmosphere, weather, climate, and airplanes. In the P-credit course, teachers will strengthen their knowledge of weather and climate as they develop strategies for implementing the curriculum in their classroom. Emphasis will also be placed on assessing student work.

The course will meet Tuesday and Thursday evenings from February 26th to March 27th. Course sessions will be either at the NYCCSSE or the AMNH. P-credits can be applied towards salary differential (3 credits) or professional development hours (30 hours) for teachers certified after 2004. For more information, check out www.nyccsse.org/atmosphere or call (212) 608.6164 x153.

Three-day Mid-Winter Recess Professional Development Institute for Educators – a collaboration between the American Museum of Natural History and Queens Botanical Garden – focusing on the exhibition *Water: H₂O = Life*



Click on the link below for the flyer to register for a three-day, mid-winter recess, professional development institute for educators – a collaboration between the American Museum of Natural History and Queens Botanical Garden – focusing on the exhibition *Water: H₂O = Life* at the AMNH.

http://schools.nycenet.edu/offices/teachlearn/science/Water_Educators_Institute_Flyer_2008.pdf

What: Educators' Professional Development Institute: *Water: H₂O = Life*

When: February 19 – 21, 2008 (Tuesday through Thursday); 12:00 pm – 6:00 pm each day

Where: Tuesday and Thursday at American Museum of Natural History (Central Park West at 79th Street, New York, NY 10024)

Wednesday at Queens Botanical Garden (43-50 Main Street, Flushing, NY 11355)

Focus: Middle and High School Life and Earth Sciences

To Register (space is limited): Please phone AMNH's Central Reservations Department by Thursday, February 14, 2008 at (212)769.5200.

Fee: \$100/teacher (includes workshops, materials, lunch each day).



Grade Eight Acceleration for Diploma Credits

From the State:

In response to questions we have recently received from the field, we wanted to take an opportunity to provide important clarifying information on Part 100 of the Regulations of the Commissioner of Education, which provide public school students in grade eight the opportunity to take high school courses in mathematics and in at least one of the following areas: English, social studies, languages other than English, art, music, career and technical education subjects or science courses.



This provision was put in place to provide opportunities for individual students rather than as a vehicle for accelerating entire cohorts of students into high school courses. Superintendents or their designees shall determine whether an eighth grade student has demonstrated readiness to take high school courses. School districts are encouraged to develop and use a written set of criteria to determine each student's readiness for acceleration. Grade eight students who are accelerated for diploma credit must have been provided instruction designed to facilitate their attainment of, by the end of grade seven, the State intermediate learning standards in each subject area in which they are accelerated.

Part 100 Regulations of the Commissioner of Education allow only grade eight students the opportunity to be accelerated into high school courses and to receive credit for use in satisfying diploma requirements. This provision does not extend to grade seven students.

We hope this clarifying information is helpful. Grade eight acceleration for diploma credit, may be found in subdivision 100.4(d) of the Part 100 Regulations of the Commissioner of Education. Section 100.4 may be accessed at <http://www.emsc.nysed.gov/part100/pages/1004.html>

Please contact Anne Schiano, Assistant Director, Curriculum, Instruction and Instructional Technology, at aschiano@mail.nysed.gov for additional information.

New Science Magazine “Conservationist for Kids” Coming to all Fourth Graders



All 4th grade teachers in NYC will be receiving this magazine very shortly. Published three times each school year by the New York State Department of Environmental Conservation. It will be an 8-page magazine written for 4th grade students to use at school and at home. The current issue will be mailed shortly in classroom sets to a sample of approximately 500 public school 4th grade teachers across New York State (one entire district in Brooklyn and Micheal Petrides School in Staten Island). Subsequent issues will be mailed in class sets (30 copies) to every public school 4th grade teacher in New York State (approx. 10,000 teachers), along with a teachers' supplement (NOTE: Subsequent issues will not be included as an insert in the *Conservationist Magazine*) There is no subscription fee. *Conservationist for Kids*, the teacher supplement and additional activity sheets are available at:

The entire magazine is available at: <http://www.dec.ny.gov/education/40248.html> and the teacher supplements also available at <http://www.dec.ny.gov/education/40248.html>

The magazine content consists of current national and global areas of interest, such as climate change which are addressed with a New York State perspective. Readers are encouraged to get outdoors and explore their back yard, school yard, or nearby natural area, and to develop an interest in environmental stewardship.

Contact Information:

E-mail: cforkids@gw.dec.state.ny.us

Mail: Conservationist for Kids, 625 Broadway, 2nd Floor, Albany, NY 12233-4500

February Birthday Corner



Demitri I. Mendeleev, February 7, 1834

Demitri Mendeleev, in 1869, published the first version of the periodic table of elements and stated his periodic law. In 1870, Mendeleev took his concept further, predicted three new elements, and suggested several properties of each. The three elements were discovered later, and their properties were found to be remarkably similar to those predicted by Mendeleev. These discoveries took him to the top of the science world.

Linus C. Pauling, February 28, 1901

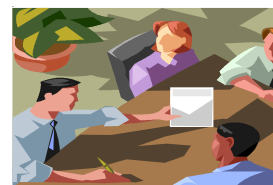
was an American scientist, peace activist, author and educator. He is considered the most influential chemist of the 20th century and ranks among the most important scientists in history. Pauling was one of the first scientists to work in the fields of quantum chemistry, molecular biology and orthomolecular medicine (optimum nutrition). Pauling is one of a small group of people who have been awarded more than one Nobel prize, one of only two people to receive them in different fields (the other was Marie Curie) and the only person in that group to have been awarded each of his prizes without having to share it with another recipient.

Interesting Science Facts

- * A quarter of the world's plants are threatened with extinction by the year 2010.
- * Wounds infested with maggots heal quickly and without spread of gangrene or other infection.
- * The fastest speed at which a falling raindrop can hit you is 18mph.
- * A dog's sense of smell is 1,000 times more sensitive than a human's.
- * Our oldest radio broadcasts of the 1930s have already traveled past 100,000 stars.
- * Living organisms on Earth can thrive as deep as 2 miles down.
- * Any one of a thousand viruses can cause the common cold.
- * Mark Twain was born on a day in 1835 when Halley's Comet came into view. When he died in 1910, Halley's came into view again.

Elementary and Middle School Focus Groups

The Elementary and Middle School Focus and Leadership groups have been meeting once a month. The members discuss the implementation of the new curriculum in their schools. They are usually broken into three groups for part of the meeting: blend schools, text schools and kit schools. The members have been discussing the planning guides, how the implementation of the Curriculum is working in their school and how their school is scheduling periods for teaching science (elementary schools). All the members have discussed the “**science models**” used in their schools and we are compiling the models. We hope to soon have many of the models on our website in order for schools to choose the model that may best fit their school's needs. We are visiting some exemplary elementary schools that have adopted working models to teach science instruction at least four times a week for grades three and four. If your school has a very successful model, please e-mail Roy Harris at RHarris2@schools.nyc.gov with an explanation of the model. We would like to visit schools with working and productive models and start to post them on our website to assist schools that can use the creative ideas that their colleagues have developed.



Principals- Need Support for Elementary School Science?- Try NSTA's Scientific Principals Newsletter



The principal is generally the decision maker in elementary schools. So what better way to garner support for science than going right to the top? If your principal needs information on easy, effective ways to integrate science into the classroom, NSTA has an e-newsletter written especially for him or her. *Scientific Principals* offers a science toolbox full of new ideas, tricks of the trade, tips for better teaching, and practical applications. Each issue is based on widely-taught themes found in elementary science curricula. To view past issues or to show your principal where to sign up for this free monthly e-newsletter, please visit

<http://www.nsta.org/publications/archive-principals.aspx>

Free DVDs Profile Women Scientists

Several free DVDs that profile women scientists are available upon request from the National Institutes of Health.



“Women Are Scientists” presentations showcase successful female scientists in their respective specialties and give a detailed view of three women scientists, from various backgrounds, as role models for their particular careers. Click here <http://science.education.nih.gov/women> for more information or to request the series.

“Amazonia Brasil” Educators Open House February 26

Hurry because seats are filling up! A special educators open house for the exhibition “Amazonia Brasil” will be held at the National Museum of the American Indian in downtown Manhattan on **February 26** at 4 p.m. Amazonia Brasil is an interactive, student-friendly, worldwide exhibit on the environment running from April to July, at the South Street Seaport, Pier 17. Teachers participating in the open house will receive free and priority class booking, a value of \$20.00 per student. Teachers attending the open house will also receive a packet containing support materials for the exhibit, including specific materials for 3rd and 6th grades. Refreshments will be served. To pre-register, visit www.amazoniabrasil.org.br. For additional information, please e-mail eoh@amazoniabrasil.org.br.



Action for Nature's International Young Eco-Hero Awards

Action for Nature, a non-profit organization that encourages young people around the world to carry out environmental action projects, presents the International Young Eco-Hero Awards to recognize the individual accomplishments of young people ages 8-16 whose personal actions have significantly improved the environment. Cash prizes of up to \$500 each will be awarded. For more information go to:

<http://www.actionfornature.org/eco-hero/ecoheroawards.html>. Deadline: February 28, 2008

Opportunity to Receive Three Years of Professional Development

There are several openings for teachers of all grade levels to receive extensive training as part of a NY state MSP grant for Science, Technology, Engineering, and Math (STEM). A variety of programs are available, each of which requires a three year commitment to participate. Teachers may be paid a per session rate for participation in some of the training outside of regular school hours. For program details and eligibility information, please contact Alix Jospitre (ajospitre@schools.nyc.gov) or Rhenaye Hornsby (rhornsby@schools.nyc.gov).

City Gardens Club of New York Scholarship for New York City Public School Educators

The **City Gardens Club** of New York, an 87 year-old non-profit organization, is providing a limited number of scholarships to activity-oriented summer workshops for New York City public school teachers at the following:

The New York Botanical Garden

Seedlings Program (K – 2nd Grade Educators)
July 7-11, 2008

or

July 14-18, 2008



The New York Botanical Garden

Saplings Program (3rd – 5th Grade Educators)
July 21-25, 2008

or

July 28-August 1, 2008

Additional information on “P” in-service credits or 30 units of new teacher credit from the N.Y.C. Department of Education or graduate credits in education through CUNY Lehman College may be obtained by contacting Jamie Boyer, Manager of Professional Development at (718) 817-8177 or jboyer@nybg.org.

Brooklyn Botanic Garden

“What Did a Plant Ever Do For You?” (Pre-K – 8th Grade Educators)

July 8, 9, 10, 15, 16, 17, 22, 23, 24, 29 2008 (10 evenings) 4-7 pm

“P” in-service credit through the NYC Department of Education’s After School Professional Development Program (NYASPDP) Additional information on “P” in-service credits may be obtained by contacting Barbara Kurland, School Programs Manager at (718) 623-7235 or barbarakurland@bbg.org.

Maine Audubon Society

July 13-19, 2008

Workshop for Educators (6th – 8th Grade Educators)

This week-long workshop is for science and non-science educators. Content includes classroom presentations, discussions, field trips, boat cruises to bird colonies, tide pools, seabird colony management and butterfly biology. One of the benefits of the program is the interaction with peers from other parts of the country.

Additional information in regard to New Teacher Credit from the N.Y.C. Department of Education may be obtained by contacting Linda Ledoux, Program Registrar at (888) 325-5261 (x215) or lledoux@maineaudubon.org.

The Nature Conservancy

Shelter Island

July 7 – 10, 2008

(4th – 8th Grade Educators)

This three-and-a half-day residential workshop will introduce participants to the land, water and sky of Long Island. Participants will explore the woods, meadows, salt marsh and shoreline by foot and by boat. In addition, attendees will learn to use picture books to enhance science and nature discovery, participate in banding birds, experience hands-on aquaculture, discover citizen science projects that can be used in the classroom as well as become qualified to use the new Flying WILD curriculum. Activities will be keyed to NYS learning standards. The workshop will provide resources and activities designed to assist educators in bringing knowledge and enthusiasm back to the classroom. Active participation is key; come prepared to hike, wade and paddle! All attendees will receive a certificate of attendance with 30 hours indicated for the purpose of applying for district in-service credit. For further information about course curriculum, contact Cindy Belt, Education and Outreach Coordinator at (631)749-1001 or cbelt@tnc.org.

Additional Application Information

If potential applicants have program and curriculum-specific questions, they may contact the administrators mentioned above. For questions about the City Gardens Club of New York City’s scholarship program, please call our office at (212) 737-0138 or email questions only to citygardensclub@aol.com.

To access further information and the application click on the following link:

<http://schools.nycenet.edu/offices/teachlearn/science/2008CGCScholarshipApplicationJanissue.pdf>

Department of Science Professional Development Offerings



We have had tremendous feedback regarding our professional development workshops. These workshops included: Core Curriculum training for grades 3, 4 and 6, the 4th and 8th grade State Test (written & practical components), Science Notebooking, Science Journaling, the Living Environment State mandated labs and the Regents Earth Science Part D lab component.

Many of these workshops will be offered again this spring (please click on the link for dates/times and price). <http://schools.nycenet.edu/offices/teachlearn/science/SciencePD.doc>

Below we have a short description of each workshop we offer and we strongly encourage you to sign up for these very important courses. Principals need to pay through FAMIS to enable teachers to attend. After making a payment through FAMIS and obtaining a purchase order number, the teacher then can click on the "Click Here" tab and register. The teacher must have the purchase order number in order to complete registration.

The Four Mandated Living Environment Labs (Middle and High School)

This full-day workshop will walk the participants through the four NYS mandated laboratories in Living Environment—Making Connections, Diffusion through a Membrane, The Beaks of Finches and Relationships & Biodiversity. March 15th or May 10th

Earth Science—Part D Training (Middle and High School)

This full day workshop session will introduce both the practical and written components of the Earth Science Part D Regents examination that will be given for the first time in June 2008. Teachers will set up the stations for the practical examination, take the test and grade the performance tasks utilizing the state rubric. March 15, April 5th or May 10th

The 4th and 8th Grade Science Test— Written & Practical Components (Elementary and Middle School)

This 2-day workshop session will introduce and review both the written and practical components of the 4th and 8th Grade Science Test. An in-depth review of the performance stations used for the 4th and 8th Grade State Science Test will be given on day one. Day two will lead attending teachers in a review of the science written test and introduce inquiry-based activities which support student understanding. There are separate courses for 4th or 8th grade. This course is designed for teachers who have never administered the tests before or have limited experience in the tests. If you are experienced and want a one-day refresher course, please e-mail Roy Harris at RHarris2@schools.nyc.gov and we will set up a workshop if there is a demand. March 3rd and March 17th



The 8th Grade Science Exit Project (Middle School)

Attending participants will be led through an in-depth understanding of all aspects governing the Middle School Science Exit Project. This workshop will include introductory activities for MS students, including: fieldwork study, design project, secondary research and a controlled experiment. An update of accepted criteria and a grading rubric will be reviewed. Teachers will receive a folder of support materials. February 29th

Science Notebooking (Elementary and Middle School)

This full-day workshop session will introduce participants to the importance, for students, of notebooking in the science class. The workshop will focus on efficient methods of setting up, and keeping science notebooks, how to incorporate notebooks in the science program, how to use notebooks as formative assessments, and how students can utilize their notebooks as reference documents. March 19th

Science Journals (Elementary and Middle School)

Nature journals can be used in both formal and informal education settings to record observations of the natural world and create opportunities to learn art, science, mathematics, and language arts. Journals used in this way are practically unmatched for enhancing observational and thinking skills at the same time they enhance knowledge and appreciation for local nature. This full-day workshop will get you started keeping nature journals of your own and guide the use of nature journals as tools for teaching and learning. April 10th

Using Your Classroom Science Trade Books to Support the Science Curriculum

This full-day workshop session will instruct teachers and supervisors how to use the science trade books that come with the core curriculum. The participants will be taken through an in-depth review of the trade books supporting, enriching and extending the already established curriculum in the schools. This workshop will show participants techniques to adapt the science trade books to the already existing curriculum. April 15th



Workshops Designed for Administrators

We are also offering workshops for Administrators which will help both Principals and Assistant Principals develop an understanding of science content & pedagogy. These workshops include, a half-day and/or full-day visit from our science specialists on how to observe science classrooms, protocols for effective lessons and laboratory lessons.

Observing Science Classrooms & Structures to Support Science Instruction (Elementary)

This half-day workshop will be conducted at an elementary school in Queens. Principals will be introduced to rubrics used in science classrooms for observations and rubrics used for science fairs. The principals will receive and discuss protocols used for observing a science lesson in the elementary school. They will walk through various classrooms, take notes and engage in discussion groups with the science cluster and classroom teachers. A discussion and examples of “How to Schedule Your School With Enough Science Periods” will take place during the visit. April 8th or May 8th

Personalized, In House, One-on-One Science Support Services (Half Day) (All Levels)

Receive personalized half-day, one-on-one science support services for grades K-12. Services include, but are not limited to, planning for effective professional development, Principal/AP support and development, walk through evaluations and recommendations, instructional support, both informal and formal teacher observations, help with inquiry teams and setting up effective classroom and laboratory room environments. Your choice of date.

Personalized, In House, One-on-One Science Support Services (Full Day) (All Levels)

Receive personalized full-day, one-on-one science support services for grades K-12. This in-house service provides schools the opportunity to tailor support to meet individual school needs. Services include, but are not limited to, planning for effective professional development, Principal/AP support and development, walk through evaluations and recommendations, instructional support, both informal and formal teacher observations, help with inquiry teams and setting up effective classroom and laboratory room environments. Your choice of date.



The following article appeared in City Schools, January 2008 issue:

Students and Teachers Are Excited About New Science Curriculum

Across the City, young scientists are hypothesizing, measuring, observing, building, and recording as part of the new science curriculum.

“Our kids are getting their hands dirty and their feet wet,” James Phair, principal at PS 107 in Queens, said.

The Department of Education introduced citywide core curricula for math and English Language Arts almost five years ago. The core curriculum for science, announced last spring, builds on the department’s effort to ensure that all students—no matter what school they attend or where they live—have access to the kind of instruction and materials they need to learn. Grades 3, 4, and 6 started using the new curriculum this school year. It will grow next year.

At PS 87 in the Bronx, the new curriculum has meant greater integration between what students learn in classrooms and labs.

With new “hands on” materials, “teachers are more excited about science,” science teacher Paula Rapuano said. Not only are students arriving for lab lessons better prepared, they are having more fun in the lab. “I hear groans in the room when it’s time to clean up and get ready to leave,” she said.

“Teaching science has always been a daunting task, especially for elementary school teachers,” principal Phair of PS 107 said. “This new curriculum enables the teachers to delve into areas they may have felt less certain about before.”

Travis Sloane, science cluster teacher at PS 163 in Manhattan, said the new curriculum helps teachers by “increasing their breadth of knowledge, putting them in a stronger position to answer students’ questions.”

In addition to learning about how sound travels, where different species of animals live, and why magnets are attracted to each other, the new curriculum enriches students’ vocabulary, helps with language development, and helps develop critical thinking skills.

“We are not just teaching kids how to use materials,” Sloane said. “We are challenging kids to examine what they know and what they don’t know which is different from how they are learning in reading, art, and social studies.”

He said he is applying the concepts in the science curriculum to all grades, and said his students enjoy the interactive work.

“Science is very challenging because you don’t always know what is going to happen,” Liam Futterman, kindergartner at PS 163, said. “Mr. Sloane’s lessons make me feel like I’m getting smarter,” echoed classmate Alexandra LaGuardia.

The DOE worked with educators and parents as well as university and cultural partners to develop the new curriculum, which puts emphasis on experiential, “hands on” learning in the science lab and in classrooms.

Fourth grade students at PS 107 in Queens are very enthusiastic about the new curriculum. Ashley DeSena said, “After we learned about magnets, I went home and shared what I learned with my parents.” Her classmate, Gabriella Goetz, chimed in, “It’s fun to do experiments – it’s amazing when we see what happens.” And Michael Antolos said, “We are getting to use objects we have never used before, like tuning forks and circuits.”

Their science teacher, Marian Sherron, said, “The new curriculum shows that the City is investing in creating scientists.”

Science Websites and E-Mails

NYC Department of Science Website

<http://schools.nyc.gov/Academics/Science>

NYC FOSS Website

www.fossweb.com/nyc

If you have any questions for FOSS, please e-mail:

fossnyc@berkeley.edu



NYC Harcourt Website:

http://www.harcourtschool.com/menus/science/index_nyc.html

If you have any questions for Harcourt, please e-mail:

Jeanette.Watley-Wilson@harcourt.com

Glencoe Website:

http://www.glencoe.com/sites/new_york/teacher/science/index.html

Discovery Channel

www.school.discovery.com

Exploratorium

www.exploratorium.edu

Franklin Institute

www.sln.fi.edu

National Weather Service

www.nws.noaa.gov

National Science Foundation

www.nsf.gov

Smithsonian

www.mnh.si.edu

Wildlife Conservation Society

www.wcs.org

Teaching with the Internet

www.schoolink.org/twin

(lessons)

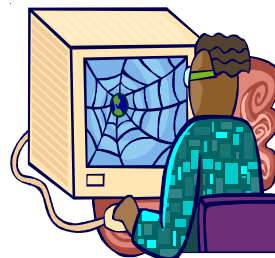
Exploratorium

The Exploratorium contains a number of websites that can enhance your curriculum:

Sports Science – <http://www.exploratorium.edu/sports>

Hands-on Activities – <http://www.exploratorium.edu/explore/handson.html>

South Pole Studies – <http://www.exploratorium.edu/icestories>



Update on Planning Guides

The Unit 3 planning guides are on the Science Website under “Educator Resources.” We understand that many teachers have had trouble accessing the planning guides because you need a DOE intranet computer. We have been working closely with the publishers in order to place the planning guides on their websites that can only be accessed through a password.

The planning guides are up and ready for you to access on the Harcourt and the FOSS websites.

Harcourt Website:

Click on: http://www.harcourtschool.com/menus/science/index_nyc.html

You should follow these easy steps to download the Harcourt planning guide:

First click on the Teachers Link.

Then click on the NYC Planning Guides.

Then click on the Grade and Unit you want to view.

When asked for a password type in the following: NYCPG

The password works for all NYC teachers.

FOSS and Glencoe are working very closely with us and will have the planning guides on their sites shortly.

FOSS Website:

Click on: <http://www.fossweb.com/NYC/>

Then click on the link: New! Planning Guides for NYC Teachers

Then click on the Planning Guide you want to download and use fossnyc for your username and your password.

The **Glencoe** planning guides will be on their website shortly.

