

Who is preparing our students for the future that awaits them?

▶ Business leaders, economists, politicians, futurists and many educational leaders all seem to agree that it is not the current American School system. Our country's success as a global leader in the industrial age was a direct result of an excellent educational system specifically designed to prepare that generation's workforce.

New York City Community School Districts 5 & 6, located in the northern part of Manhattan, are facing this challenge by seeking to create three model twenty-first century elementary schools. In collaboration and with support from outside experts, the staffs of these schools will examine and implement reforms that engage elementary students in meaningful, authentic learning experiences that provide opportunities to gain deep understandings of the curriculum content while helping them achieve the ISTE *Next Generation* technology standards. Twenty-first century students need to be critical thinkers, creative problem solvers, innovators, visionaries, and team builders; all capable of adapting and independently learning new information.

Students will be armed with strategies to become self-directed learners who can manage their own learning in an environment where distance, time and location become irrelevant to the process. Students will develop the ability to locate and synthesize important information and articulate and share conclusions in multiple forums. These knowledge acquisition and productivity skills necessitate that our students understand the significance and consequences of publishing content on the web.

The goal of year one is to meet the *Essential Conditions* for the ISTE standards and the goal of year two is to create a learning environment that ensures that administrators, teachers and students all actually meet the ISTE Standards. Year one will focus on creating a school vision, implementing model exemplary grade level projects, and providing push-in and pull-out professional development opportunities on instructional practice, project-based learning and technology integration. Year two will continue to build on this work and teachers will independently create exemplary technology-rich, curriculum lessons with opportunities for differentiating learning.

This project will be carefully documented on the web and transparent to all the remaining public and nonpublic elementary schools located in these districts. It is hoped that the impact of this work will be evident in all of the district's elementary schools as they share in our quest, explore the research, attend the Office of Instructional Technology citywide workshops, replicate best practices, and participate in the online discussions, where the model schools share their challenges and successes.

Title IID Expert Partners:

- ◆ JDL Horizons, IT Professional Development
- ◆ Kathy Bocchino, Heart of Change Inc.
- ◆ Alan November, November Learning Inc.
- ◆ UniServity, Online Learning Platform
- ◆ Learning.com, Online Instructional & Assessment system

Manhattan Office of Instructional Technology

Michael Columbia, Webmaster mcolumb@schools.nyc.gov
Erik Siler, Supervising Technician, esiler@schools.nyc.gov

Title IID Staff Developers

Norman Eng neng@schools.nyc.gov

Title IID Model Schools

P.S. 28M

Elsa Nunez, Principal
475 West 155th Street, New York, NY 10032

P.S 123M

Beverly Lewis, Principal
301 West 140th Street, New York, NY 11030

Our Lady Queen of Martyrs

Andrew G. Woods, Principal
71 Arden Street, New York, NY 10040

21st Century Inquiry Based Learning Projects

Detailed information can be found at: www.oit.nycenet.edu/gps

Robotics Program

Project Contact - Title IID Staff Developer
Veryl Greene VGreene3@schools.nyc.gov

Kindergarten - Second Grade

- ◆ **Creating, Publishing, & Sharing Online ABC Books**
- ◆ **Creating and Publishing Online Multimedia Word Walls**

Project Contacts - Instructional Technology Specialists
Jennifer Columbia jcrawfo@schools.nyc.gov
Beth Richards brichar4@schools.nyc.gov

Second Grade

- ◆ **Nonfiction Science Research & Publishing**

Project Contacts - Instructional Technology Specialists
Jennifer Columbia jcrawfo@schools.nyc.gov
Beth Richards brichar4@schools.nyc.gov

Third Grade

- ◆ **World Communities Research & Publishing**

Project Contact - Instructional Technology Specialist
Beth Richards brichar4@schools.nyc.gov

Fourth Grade

- ◆ **Students Research & Publish a Wiki on Their Local Community**

Project Contact - Instructional Technology Specialist
Carolyn Semet csemet@schools.nyc.gov

Fifth Grade

- ◆ **WebPlay** - An Internet based arts education project enabling primary school children to create, produce & perform dramatic plays. Classes work in collaboration with a professional theater company & students from partner schools in different countries.

The Learning Shift Road Map to 21st Century Schools

▶ In a twenty-first century learning environment, all students are able to learn. This new environment doesn't just wait for teachable moments; it literally creates them. This grants' goal is to demonstrate how schools can transform themselves through leadership and systemic change by providing your school with resources and professional development to leverage existing and emerging technologies, web 2.0 tools, and practices, as defined in the *Habits of Mind*, to create a teaching and learning environment that provides your students with the skills necessary to succeed in the 21st century. Students in school and adults in everyday life are challenged by problems, dilemmas, paradoxes, and enigmas for which the solutions are not immediately apparent. Drawing on the *Habits of Mind* means knowing how to behave intelligently when you don't know the answers. It means not only having information, but also knowing how to act on it. This grant will provide your teachers and students with access to international experts in the field of technology and instructional practice.



This grant will enable teachers to optimize learning by using Web 2.0 tools to create learning environments that are:

- ◆ Interactive and engaging
- ◆ Relevant and authentic
- ◆ Collaborative and inclusive
- ◆ Employing 21st-century tools & technology
- ◆ Leveraging experts and resources in and outside of school

Teachers need to be challenged to learn, use, and understand twenty-first century tools in their own lives. "Education will only change when educators embrace the read/write web in their own world." *Will Richardson*

NETS for Teachers

Essential Conditions for Teachers

- ◆ Preparation
- ◆ Shared Vision
- ◆ Access
- ◆ Skilled Educators
- ◆ Professional Development
- ◆ Technical Support
- ◆ Content Standards & Curriculum Resources
- ◆ Student-Center Teaching
- ◆ Assessment
- ◆ Community Support
- ◆ Support Policies

Standards for Teachers

- I. Technology Operations & Concepts
- II. Planning and Designing Learning Environments and Experiences
- III. Teaching, Learning and the Curriculum
- IV. Assessment and Evaluation
- V. Social, Ethical, Legal and Human Issues

More information about NETS for Teachers:

<http://cnets.iste.org/teachers/index.html>

www.iste.org

Visit our suggested reading list at:

www.oit.nycenet.edu/gps/readinglist

The Manhattan Office of Instructional Technology

Globally Positioning Students For the 21st Century



Creating Model Twenty-first Century
Elementary Schools in CSD 5 & 6

www.oit.nycenet.edu/gps

Teresa Bader

Director of Instructional Technology - Manhattan
tbader@schools.nyc.gov

Assistant Directors of Instructional Technology - Manhattan
Amy Reynolds
areynolds@schools.nyc.gov

Carol Franken
cfranken@schools.nyc.gov

4360 Broadway - Room 403
New York, NY 10033