



THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY  
12234

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## 2009-2012 Learning Technology Grant Program Abstract

(Abstracts are posted as submitted by the LTG award winners)

School District or BOCES Name	NYCDOE Community School District 7, PS 65 Mother Hale Academy				
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### Learning Technology Grant 2009-12 Abstract

PS 65, Mother Hale Academy is collaborating with St. Luke's School, a non-public school located in our Community School District 7. Our proposed program, Data Collection and Analysis through Technology (DCAT) will focus on enhancing cross-disciplinary instruction in ELA, Science and Mathematics through the integration of technology and teacher professional development.

We plan to delve deep into organic science, health and nutrition with our non-public school St. Luke's School. Teachers, students and families, who participate in our program will engage in deep hands-on exploration of organic science and the science of environmental sustainability in offline and online collaborative, multimedia-rich learning environments. They will have the opportunity to participate in the construction of a high-tech, solar greenhouse in our school play yard and to grow vegetables and herbs throughout the school year. Growing Spaces is socially-directed company in Colorado that has designed solar greenhouse domes. The domes are constructed of polycarbonate glazing and feature a solar-operated subterranean heating system that warms the soil where the plants grow. Also, a water tank keeps the greenhouse warm in the winter and cool in the summer. Fish can be kept inside the pool to keep it clean of algae and their waste-water can be used as fertilizer for the vegetables and herbs. Staff from Growing Spaces will come to our school and help our children construct the greenhouse dome, will instruct our teachers and students on the science and technology behind all of its components and help us to select plants, vegetables and herbs that we will grow in the dome.

Using a project-based and student centered approach, the program will provide models of effective technology integration at professional development training sessions conducted at Fordham University. Each school will identify a team of teachers made up of third, fourth and fifth grade teachers, literacy and math coaches and science and library media specialists. Participants will experience lessons and activities as if they were students in the classroom. Using new technologies like SmartBoards, USB microscopes, and data collection probes, teachers of literacy, math and science will improve their own technical skills and refine both curriculum and methodology. At their school sites, teachers will receive regular visits from Fordham University and other technology professional developers who will provide in-class support including lesson and unit planning, materials management and implementation. The program will also include training in Web 2.0 technologies including Google Docs and Moodle. Students in the two participating schools will share their projects using these new online collaboration tools.