



Smart Schools Program

February 10, 2016

Smart Schools Bond Act of 2014

- Statewide Referendum held on November 4, 2014
- The bond finances improved educational technology and infrastructure to help improve learning and opportunity for students throughout the state.
- New York State determined the allocation for each district.
- <http://www.ny.gov/programs/smart-schools-ny> -State web site describing program.

Mount Sinai's Allocation: \$1,618,336

The screenshot displays the NYS Smart Schools Search interface. At the top, the browser address bar shows the URL: http://apps.cio.ny.gov/apps/smart_schools/index.html#/district/514. The page header includes the New York State logo, navigation links for Services, News, Government, and Local, a search bar, and a Settings link. Below the header, a blue banner reads "Smart Schools Allocation".

The main content area features a search interface on the left and a results panel on the right. The search interface includes a text input field containing "Mt Sinai" and a "Search" button. The results panel, titled "1 Results Found (District / County / Region)", displays the following information:

District:	Mt Sinai
Proposed Allocation:	\$1,618,336.00

Below the search interface, there is a footer with the New York State logo and navigation links for Agencies, App Directory, Counties, Events, Programs, and Services.

Four Areas of Possible Investment

- **Network Infrastructure** -high-speed broadband, wireless internet connectivity.
- **Classroom Equipment** -learning technology equipment or facilities.
- **Security** -high-tech security features in school buildings and on school campuses.
- **Pre-K** -Constructing, enhancing, and modernizing educational facilities to accommodate pre-kindergarten programs.

Smart Schools Program IT Considerations

- Requires linkage to the District's Instructional Technology Plan which addresses gaps in the District's current level of technology including:
 - All items related to network infrastructure to support required increase of wired network, wireless network, and broadband internet access.
 - All items related to classroom equipment, learning technology equipment, and student devices.
- Requires reviewing the use of digital connectivity and technology to improve teaching and learning in the classroom:
 - Creativity and innovation
 - Communications and collaboration
 - Research and Information Fluency
 - Critical Thinking, Problem Solving
 - and Decision Making
 - Digital Citizenship
 - Demonstrate the safe and cooperative use of technology
 - Technology operations and concepts

Smart Schools Program IT Considerations

- Smart Schools Bond Act - Funds used for technology infrastructure requires that Districts must increase the number of school buildings that meet or exceed the Federal Communications Commission minimum speed:
 - 100 Mbps per 1,000 students in District
 - for Mount Sinai therefore ~250 Mbps
 - Will increase annual maintenance costs to District
 - Will address potential for even higher bandwidth requirements in the future

Funding Criteria Defined

- Smart Schools Program Committee required, stakeholders defined.
 - Teachers (2)
 - Students (2)
 - Parents (3)
 - Academic Department directors (2)
 - Technology Staff Developer
 - District Tech Support
 - Executive Director for Educational Services
 - Director of Information Technology
- Adherence to Smart Schools Program process
- Committee's Assumptions – Use Smart Schools money to fund the District's Technology demands for next few years.

Smart Schools Program IT Projects for Consideration

- Smart Schools Program Committee reviewed the School Connectivity Infrastructure and Classroom Equipment and recommends the following for consideration:
 - Wired Network Update
 - Wireless Network Update
 - Servers Update
 - Classroom Equipment
 - High-tech Security
- Possible Future Mandate – Online Testing (NYSED Memo 12/1/15)
 - Bandwidth Considerations
 - 3-8 Testing
 - Regents Exams
 - SAT/ACT Exams

Infrastructure (replacement)

\$568,803

- Campus Fiber Backbone (replace).
- Internet upgrade; 50MB→250MB.
- Implement 2nd Internet Service Provider (ISP).
- Core network switches.
- Wireless Controllers.
- Access Points (AP's).
- Wireless Security.
- Firewalls.

Classroom Equipment (replacement)

\$792,730

- Computers older than 3 years – 563 units.
- Notebooks/Netbooks older than 2 years – 610 units.
- Laptops older than 7 years – 196 units.
- Projectors, Smartboards, Printers, Presentation Speakers – replacement as failures occur.
- Servers.
- Network Storage (SAN).
- Data Backup system.
- Battery Backup Systems.

Classroom Equipment (considered but not affordable)

- 1:1 Device to student computer program.
 - High School (9-12) only: \$ **(241,916.00)** over budget.
 - Full implementation(7-12): \$ **(348,403.00)** over budget.

Classroom Equipment (new)

\$79,200

- Student tablets carts – 68 units.
- Teacher tablets, beginning in ES – 20 units.
- Apple computers to replace HS 103 Art/Music lab (currently Windows machines) – 35 units.
- Apple computers to replace Music podium computers & workstations (currently Windows machines) – 9 units.
- Tablet stands; allows tablets to work as Document Cameras – 20 units.

Security (upgrade/new)

\$215,850

- Camera Surveillance System upgrade/new
 - Better and more modern cameras.
 - Building spaces previously not covered (coverage gaps).
 - Outside camera surveillance.
- Teacher/Staff ID's
 - Picture ID's and lanyards.
 - Color-coded to buildings.

Smart Schools Process

- Smart Schools Committee Recommendation to BOE and Public.
- Posting of Preliminary Plan on District web site.
 - Preliminary Plan posted for minimum 30 days.
 - Feedback/comment opportunity through web site link.
- Notification of Public Hearing.
- Smart Schools Program Public Hearing.
- Final Smart Schools Plan Developed.
- Smart Schools Plan Adopted by BOE.
- Submission to State.

Thank you!