Technology Plan
2017-2018
April 4, 2017

Dr. James Montesano - Superintendent of Schools

Nyack Board of Education

Karen Hughes, President
Leeann Irvin, Vice President
Jen Marraccino, Secretary
Damon Bender, Trustee
Michael Mark, Trustee
James Marshall, Trustee
Terence Rock, Trustee

Indigo Golub, Student Representative
Technology Committee

Dr. James Montesano - Superintendent of Schools
Dr. Winsome Gregory - Assistant Superintendent Curriculum & Instruction/Personnel
Maryellen Lydecker - Information Systems Manager
Boyd Adolfsson – Consultant IDE Corp.
Lucia Picardo - Nyack High School Assistant Principal
Victor Olmedo - Nyack High School Teacher/Dean
Kirk Allen - Nyack High School Teacher
Traci Ferreira - Nyack High School Teacher/Technology Integration
Jennifer Baca - Nyack High School Teacher
Mary Berat - Nyack High School Teacher
Steven Nardi - Nyack High School Teacher/Technology Integration
David Johnson - Nyack Middle School Principal
Lucrisha Addison - Nyack Middle School Assistant Principal
Ben Turner - Nyack Middle School Teacher/Technology Integration
Joe Mercora - Upper Nyack Elementary Principal
Tracey Schumacher - Upper Nyack Elementary Teacher/Technology Integration
Margarita Vasquez - Upper Nyack Elementary Teacher
Nick Grasso - Liberty Elementary Media Specialist
Francisca White - Liberty Elementary Teacher/Technology Integration
Adam Beirlein - Valley Cottage Elementary Teacher
Anna Maria Giuffre - Valley Cottage Elementary Teacher/Technology Integration
Amy Leibel - Valley Cottage Elementary Teacher
Our Mission

The District’s Five-Year Technology Plan is under the sphere of the overall District’s Strategic Five-year Plan and Mission.
Technology Vision

We envision a learning experience where students have individual access to technology during the entire school day and, for some students, during after school hours.

To support and further this vision, we foresee a technology infrastructure that is modern, robust and flexible, designed to exceed curricular needs and goals, that is safe, secure, and respectful of individual identity and privacy, and that will prepare students for the technology experiences they will encounter in their personal and professional lives after graduation.
In his 2014 State of the State Address, Governor Cuomo called for New York State to invest $2 billion in its schools through a Smart Schools Bond Act – an initiative that would finance educational technology and infrastructure, providing students access to the latest technology and connectivity needed to succeed and compete in the global economy.

New Yorker’s agreed and voted in the Smart Schools Bond Act (SSBA) in November 2014.
A Reimagining

- A flexible and reconfigurable, barrier-free space, both figuratively and literally. Inviting, light, airy, and fun! Formal, social, and individual learning.

- The best resources; physical and digital, for our students and colleagues. A 21st century technology showcase modeling the transformation of learning.

- Ongoing, deep collaboration with teachers and students. Meaningful relationships with the community.

- Fostering love of learning and of reading, in any and all forms, as a way to become a lifelong learner.
A Learning Hub of the 21st Century

The library as a “learning commons”, a mixed-use space for research, study, collaboration, global connection, and educational innovation — with librarians embodying the all-important connection between resources and students.

Create an environment for "collaboration and knowledge co-construction." A place that encourages participatory learning and allows for co-construction of understanding from a variety of sources.

Establish a hub for the school community that encourages teachers and students to collaborate, communicate, and share. A place where students interact with the content, the technology, the space, and each other in order to gain context and increase their knowledge. Not just a place to house resources, but one in which to create meaning from them.
Imagine a individualized and differentiated learning path where students have meaningful access to technology during the entire school day and, for some students, during after school hours.

- Enhanced student engagement, motivation, and ownership of learning
- Increased flexibility for group and problem/project-based learning
- Building social capital through collaboration, within and outside school
- Ongoing formative assessment possible when always connected
- Encourage a sense of global citizenship
- One-to-one technology improves student work flow
- Emphasis on seamless infusion of technology into curriculum
- Students as creators and producers
- Provides equitable access to resources for ALL students
Executive Function in the 21st Century

Envision a digital Trapper Keeper!

- Keeping a schedule
- Tracking assignments
- Taking notes
- Organizing work
- Developing a portfolio

- Pencil case
- Collaborating
- Passing notes
- To-do list
- Community interaction

- Creativity
- Sharing ideas
- Accessing information
- Linking learning
- Work in progress
Elementary School 1:1 Deployment

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grade Level/Year →</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K (3:1, shared)</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>New</td>
<td>Red</td>
</tr>
<tr>
<td>1st (3:1, shared)</td>
<td>*</td>
<td>*</td>
<td></td>
<td>New</td>
<td>Green</td>
</tr>
<tr>
<td>2nd (3:1, shared)</td>
<td>*</td>
<td></td>
<td>New</td>
<td></td>
<td>Orange</td>
</tr>
<tr>
<td>3rd (1:1, assigned)</td>
<td>New</td>
<td>Red</td>
<td>Red</td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>4th (1:1, assigned)</td>
<td>New</td>
<td>Green</td>
<td>Green</td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>5th (1:1, assigned)</td>
<td>New</td>
<td></td>
<td></td>
<td>Replace</td>
<td></td>
</tr>
</tbody>
</table>
## Middle & High School 1:1 Deployment

### Middle School

<table>
<thead>
<tr>
<th>Grade Level/Year →</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 (1:1, assigned)</td>
<td>*</td>
<td>New</td>
<td>New</td>
<td>New</td>
<td></td>
</tr>
<tr>
<td>7 (1:1, assigned)</td>
<td>*</td>
<td>*</td>
<td>New</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 (1:1, assigned)</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### High School

<table>
<thead>
<tr>
<th>Grade Level/Year →</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 (1:1, issued)</td>
<td>New</td>
<td>New</td>
<td>New</td>
<td></td>
<td>Replace</td>
</tr>
<tr>
<td>10 (1:1, issued)</td>
<td>*</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 (1:1, issued)</td>
<td>*</td>
<td>New</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 (1:1, issued)</td>
<td>*</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Teachers, Students, and Community

- **Develop technology standards** to guide curriculum development and ensure technology tools, skills, and concepts are infused in the student classroom experience.

- **Explore alternative methods** to provide technology-related professional development that ensure the right training is provided at the right time and in the right context.

- Leverage the growing base of mobile technology to **support the growing population of students learning a second language and non-native speakers** and address the need to provide a safe haven to practice the target language.

- Approximately 5% of students are unable to access the internet at home. **Establish relationships** with community organizations, libraries, YMCA, and businesses in the district to provide free or low-cost internet access to those identified students.
The Technology

● The Chromebook has become the “digital notebook” for students and an integral part of our everyday teaching and learning. Implement, over 3 to 5 years, a K-12 1:1 initiative.

● The district is moving towards a paperless environment, as printers come to their end of life, evaluate networked ‘follow-me printing’.

● **Evaluate the replacement of interactive whiteboards** for each classroom given advances in technology, the district's progress towards a 1:1 technology ratio for students, and the shift towards the Learner-Active, Technology-Infused Classroom in all schools.

● **Assess current electrical infrastructure** in all schools and consider options to increase availability (outlets) to better support increase in devices.

● Technology is continually evolving and improving and has a limited useful lifespan, **establish a five--year hardware purchase/replacement cycle** for end-user device.
The Team

- **Full-time Technology Integration Specialist** whose responsibilities include creation and management of curricular technology infusion professional development district wide.
- **Provide additional time** daily for the Technology Integration Specialist at each school building to prepare and provide support to teaching staff and/or meet with entire TIS team.
- **Full-time teaching assistant for each school** building to be trained in basic troubleshooting and repair skills to provide immediate technical support for teachers.
- **Full-time technician dedicated to and located in the elementary schools** to provide higher-level and project support.
- **Involve students** in the technical support of technology through an IT Club, a student run IT Support Center, or an IT internship program.