

Smart Schools Investment Plan - 2016-17 Version (Original) - RUFSD_Supplemental_#3_Classroom Tech

SSIP Overview

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Institution ID

80000049648

1. Please enter the name of the person to contact regarding this submission.

Desmond Poyser

- 1a. Please enter their phone number for follow up questions.

516-345-7264

- 1b. Please enter their e-mail address for follow up contact.

dpoyser@rufsd.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

Supplemental submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

Parents

Teachers

Students

Community members

- 4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

Yes

No

N/A

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5. **Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.**

- The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- The district prepared a final plan for school board approval and such plan has been approved by the school board.
- The final proposed plan that has been submitted has been posted on the district's website.

5a. **Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.**

RUFSD Prelim Investment Plan - Phase III.docx

5b. **Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.**

<http://www.rooseveltufsd.org/Page/1423>

6. **Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.**

3,994

7. **An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.**

- The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. **Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.**

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. **Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.**

(No Response)

10. **Your district's Smart Schools Bond Act Allocation is:**

\$4,305,702

11. **Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.**

	Sub-Allocations
School Connectivity	0
Connectivity Projects for Communities	

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	Sub-Allocations
	0
Classroom Technology	1,870,077
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	1,870,077

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1. **In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission’s 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source. Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:**
 1. Specifically codified in a service contract with a provider, and
 2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The District presently subscribes to the Nassau BOCES BoeTie High speed internet service. The district is upgrading our wireless infrastructure to replace outdated access points (802.11n) allowing for more connections at a higher speed. The devices will be able to connect to our fiber backbone with increased reliability. Our total student enrollment is 3,994. It is the district's intention to use SSBA money for a district wide (4-12) 1:1 initiative. The District is seeking to upgrade and increase the wi-fi/wireless infrastructure in each learning space of our school buildings(elementary schools and middle school). The District has worked with Nassau BOCES to engineer this wireless connectivity project to ensure success. After this project the District will have a robust wi-fi system in almost every learning place in the District.
We have upped our Boe Tie Speed to 450Mbps.

- 1a. **If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.**

By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	3,994	399,400	399	450	450	Currently Met

3. **If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.**

Please describe how you have quantified this demand and how you plan to meet this demand.

The District has partnered with Nassau BOCES on this project. Engineers from Nassau BOCES have been working with District staff to design a wireless network with the capacity to handle future wireless demand.
The District subscribes to the Nassau BOCES high speed phone/internet service. Nassau BOCES has assured the District that the District will be able to increase bandwidth as needed to meet present and future computing needs. The district has increased our bandwidth to 450 Mbps.

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4. **All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.**

By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. **Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.**

We plan on purchasing Interactive White Boards, Apple desktops, laptops, tablet computers and document cameras. We have devices that are connecting to older interactive White Boards which will be replaced and new interactive flat panel boards will be purchased to increase coverage and expand to all instructional areas. The new devices will utilize the same power connections as the old devices therefore we do not need to change this. All electrical, HVAC and other infrastructure are adequate for the installation of the planned systems. We intend to purchase mobile devices (iPads, document cameras and laptops) to replace obsolete models. The mobile devices will be placed in carts to give them enough charge to last a day.

There is adequate electricity for the charging of these devices in the carts that will hold them. The camera systems, audio equipment, robotics kits, pixio cameras and 3d printers are able to be used with our current electrical and network infrastructure. A walk through was completed and our current electrical and network infrastructure is adequate for all devices specified.

6. **Describe how the proposed technology purchases will:**
- > **enhance differentiated instruction;**
 - > **expand student learning inside and outside the classroom;**
 - > **benefit students with disabilities and English language learners; and**
 - > **contribute to the reduction of other learning gaps that have been identified within the district.**

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?")

The district continues to work to use technology tools and resources to transform our teaching and learning environments. The district's technology plan seeks to utilize technology to enhance learning for all students, both students with disabilities and non-disabled students as well as English Language Learners. These technologies will allow us to personalize learning for all students. Integration of these technologies will allow for differentiation of content and pedagogical approaches, self-paced learning, better sharing of student work within the classroom thus increasing student motivation, real time feedback for student work and additional tactile opportunities in the classroom. Lessons can now also be recorded for reinforcement and re-teaching, effectively allowing teachers to extend learning beyond the hours of the school day and the confines of the classroom.

These technologies will create authentic learning experiences and will connect students to externally available resources that will enhance their learning. Students will be able to connect to a larger global community, develop and apply 21st century life and career skills such as digital creation and innovation, group collaboration, digital citizenship and effective navigation of information and media. These technology improvements are beneficial for Students with Disabilities (SWDs) and English as a New Language (ENL) students. These students will be able to interact as a group, work independently and participate in the development of the afore mentioned 21st century skills. Students will also have access to a wide range of assistive tools, devices and software that are available on the devices. The Pupil Personnel Services (PPS) and ENL departments work closely with the District's Tech Director to ensure that assistive technologies are available for SWDs and ENLs. Some explicit examples of what we provide to students include but are not limited to assistive devices for SWDs and a suite of district chosen language apps for Students with Interrupted Formal Education (SIFE) who generally come from foreign countries and have a difficult time with English as a new language.

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7. **Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.**

Through the use of PowerSchool, Office 365, Google Apps and a plethora of other applications, the SmartBoards, laptops, ipads and document cameras will serve as the vehicles to create a learning culture based on collaboration, personalized learning and the development of 21st century skills. Teachers are encouraged to use the tools and features provided by the Smart Boards that have software embedded that facilitate the sharing of lessons with students and parents. The software allows for the recording of lessons that can be shared with students for remediation and re-teaching as well as sharing with parents. This also allows for the board to be mirrored on other devices which will allow for distance learning opportunities.

Teachers will be able to record lessons and post them for students and parents to go over together, parents can see what students are learning in class. Students and parents effectively have daily access to grades, feedback, classroom assignments, notes, calendars and discussion groups through the suite of technologies offered by the Smart Boards and the laptops and iPads. The TV studio will be used to provide a means for guided student expression and for the production of videos and news that will be available to students, teachers, staff, parents and stakeholders. Through these technologies teachers can engage with students and parents in new ways outside of school hours. Through these devices the district is making distance learning opportunities and virtual experiences a reality for all students and providing new ways to connect with parents who may not have access to traditional ways of communication.

This paradigm shift in the learning culture will provide opportunities to make the stakeholder community aware of the educational mission of the District, progress of different happenings, progress on students, calendar items, classwork, homework assignments, etc. Stakeholders will be connected to more data on a granular level as it is provided by teachers and staff. The District will maintain communication with parents and community on the progress of this initiative through updates to local news media, social media, mailings, board meetings and the district website. The District's Technology Advisory Committee (TAC) will continue to coordinate technology events for parents and stakeholders to make them aware of the technology resources in the schools and highlight the resources available for students and parents to use at home.

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8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

The District understands that on-going professional development (PD) is a critical component of successful technology integration, as such the District is committed to providing PD for all stakeholders. The District strongly believes that the instructional and leadership staff need progressively higher-level PD to be successful in their roles. The District has set aside PD days for administrators, teachers, and non-instructional staff members.

We will provide training for staff on the software and equipment. PD will be provided through online, workshop, job embedded and individual 1:1 methods, the various training strategies are geared to meet the unique needs of each group. The district provides in-person training before, during, and after school hours; during Professional Learning Community (PLC) meetings; through external offerings; at District level Technology Advisory Committee meetings; during faculty meetings; Superintendent's Conference Days; when school is not in session or holiday breaks; through Online PD offerings developed specifically for the district population and via targeted resources disseminated through email or on training websites. Our professional development is designed to take existing content knowledge and scaffold those skills to integrate new experiences and learning opportunities for teachers and students. This process includes sharing strategies for moving along the SAMR continuum with purposeful implementation of to maximize the impact on student learning.

Examples of topics that are offered to support staff with the inclusion of devices that will be purchased with SSBA funds include:

- 3D design and Printing
- Microsoft 365 Overview
- Microsoft One Drive: Detailed Workshop
- Microsoft OneNote: Detailed Workshop
- Microsoft Class Notebook: Detailed Workshop
- Microsoft Excel: Detailed Workshop
- Microsoft PowerPoint: Detailed Workshop
- Microsoft Forms: Detailed Workshop
- Microsoft Sharepoint: Detailed Workshop
- Google Classroom
- Google Forms
- Castle Learning Introduction
- Student Response: Kahoot and Formative
- Student Videos with YouTube Creator
- Creating lesson plans with the Smart Board (Beginners, Intermediate and Advanced)
- Coding on iPads and Laptops
- Flipping Your Classroom
- Strategies to Engage Students During Finals Review
- Gmail and Google Calendar
- Teacher Websites with Edublogs
- Google Apps Overview and Drive
- Developing a Digital Web Presence
- Advanced Level Digital Learning
- Digital Learning for Elementary Students

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

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9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

SUNY Old Westbury

9b. Enter the primary Institution phone number.

516-876-2745

9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

Raul Zevallo

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

Yes

No

10a. Describe your plan to loan purchased hardware to nonpublic schools within your district. The plan should use your district's nonpublic per-student loan amount calculated below, within the framework of the guidance. Please enter the date by which nonpublic schools must request classroom technology items. Also, specify in your response the devices that the nonpublic schools have requested, as well as in the in the Budget and the Expenditure Table at the end of the page.

The Roosevelt SSIP includes the purchase of technology hardware designated to be loaned to nonpublic schools within the district boundaries. The district has consulted with the administration of Community Academic Prep and Miss Shelley's Upward Prep to develop a plan for the loan of classroom technology purchased by the district with SSBA funding.

The non-public schools have requested iPads. Non-Public must request use of devices by June 7th annually.

10b. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.

By checking this box, you certify that you have such a plan and associated regulations in place that have been made public.

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of \$250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	1,870,077	3,155	32	3,187	122	3,923

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12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

By checking this box, you certify that the district has a sustainability plan as described above.

13. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for Classroom Learning Technology complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Interactive Whiteboards	750,000
Computer Servers	(No Response)
Desktop Computers	246,000
Laptop Computers	623,000
Tablet Computers	143,923
Other Costs	107,154
Totals:	1,870,077

15. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.

Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.

NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.

Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Desktop Computers	Apple 27	70	1,800	126,000
Laptop Computers	Dell 3380	200	600	120,000
Interactive Whiteboards	Smart Kapp-IQ 75	150	5,000	750,000
Other Costs	Mobile cart	30	2,000	60,000
Laptop Computers	Acer Spin 11 ChromeBooks	1,000	500	500,000

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Other Costs	Document Cameras	100	100	10,000
Other Costs	Makerbot Replicator Printers	2	3,000	6,000
Tablet Computers	iPads	350	400	140,000
Other Costs	Robotics Kits	15	600	9,000
Other Costs	Studio Camera Tripods (Sachtler 1001 Ace M MS System with Ace M Fluid Head, Tripod, Mid-Level Spreader, Bag, Camera Mounting Plate, Pan Bar)	2	655	1,310
Other Costs	JVC GY-HM170UA 4KCAM Compact Professional Camcorder with Top Handle Audio Unit	2	1,245	2,490
Other Costs	Cool-Lux CL3-3000DSV Daylight PRO Studio LED Spot 3-CL1000DSV Kit with V-Mount Battery Plates	1	1,695	1,695
Other Costs	Camera Controller (NewTek TriCaster 460CS Control Surface)	1	5,995	5,995
Other Costs	Audio System (Yamaha EMX312SC 12-Channel Stereo Powered Mixer, Dual 300 Watt Power Amplifiers, 8 XLR Inputs)	1	470	470
Other Costs	PACK PIXIO + SONY CX240 camera	2	970	1,940
Other Costs	Micro SD cards	2	25	50
Laptop Computers	Microsoft Surface Pro (5 @ \$1,500)	2	1,500	3,000
Other Costs	Lavalier Wireless Microphone	4	230	920
Other Costs	3.5mm Mini Female to 2.5mm Sub-Mini Stereo Male Adapter	2	5	10
Other Costs	Blue Yeti USB Mic for Professional Recording	2	139	278
Other Costs	External Hard Drive Backup (2 @ \$200)	2	200	400
Other Costs	Wacom digitizer (2 @ \$150)	2	150	300
Other Costs	KACES Keyboard Porter	2	60	120
Tablet Computers	Non-Public - iPad	10	392	3,923
Other Costs	JVC QAN0067-003 Microphone for ProHD/4KCAM Camcorder	2	90	180
Other Costs	JVC Remote Lens Control for GY-HM600 & GY-HM650 Cameras	2	325	650
Other Costs	JVC DT-V9L5U 8.2	2	1,775	3,550

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Other Costs	Bescor 12V Lithium-Ion Belt-Clip Battery & Charger Kit	2	160	320
Other Costs	Axler MA-3 Mini Arm (3.5	2	17	34
Other Costs	Senal SMH-500 Professional Studio Headphones	2	50	100
Other Costs	Pearstone HDA-106 High-Speed HDMI Cable with Ethernet	4	9	36
Other Costs	Octopus.Camera OctoPad Universal Weighted Support Base with Removable Ball-Joint Head	2	22	44
Other Costs	SanDisk 64GB Extreme PRO SDXC UHS-I Memory Card	4	30	120
Other Costs	JVC SWIT BN-S8823 7.2V Lithium Ion Battery for GY-HM100/150/170	2	85	170
Other Costs	Arco Video Dr. Bag 20	2	119	238
Other Costs	Revo SR-1000 Shoulder Support Rig (Black)	2	90	180
Other Costs	Magnus VT-4000 Tripod System with Fluid Head	2	160	320
Other Costs	Transport bag for PIXIO & PIXEM	2	117	234
Desktop Computers	Dell Optiplex	200	600	120,000