Smart Schools Investment Plan - Revised - SSIP- HS Media

SSIP Overview

Institution ID

800000055306

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

   Demian Singleton

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

   (518 456-6200

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

   singletond@guilderlandschools.net

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

5. **Did your district contain nonpublic schools in 2014-15?**

   ☑   Yes
   ☐   Yes, but they have all since closed, moved out of district or are declining use of SSBA funds
   ☐   No

6. **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 occured 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.

Smart Schools Investment Plan - Revised - SSIP- HS Media

SSIP Overview

6a. **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.**

GCSDSSIPFinalDraft_2.pdf

6b. **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.**

https://www.guilderlandschools.org/smart-schools-investment-plan/

7. **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.**

5,400

8. **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.

9. **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)

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

(No Response)

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

$2,096,732

12. **Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement**

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	4,909	122	5,031.00	2.42

13. **This table compares each category budget total, as entered in that category's page, to the total expenditures listed in the category's expenditure table. Any discrepancies between the two must be resolved before submission.**

	Sub-Allocations	Expenditure Totals	Difference
School Connectivity	40,954.00	40,954.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	37,770.00	37,770.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	0.00	0.00	0.00
Nonpublic Loan	0.00	0.00	0.00
Totals:			

Smart Schools Investment Plan - Revised - SSIP- HS Media

SSIP Overview

	Sub-Allocations	Expenditure Totals	Difference
	78,724	**78,724**	**0**

Smart Schools Investment Plan - Revised - SSIP- HS Media

School Connectivity

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.

   In the 2016-17 school year, Guilderland CSD upgraded its infrastructure to support numerous technology-centered learning initiatives. The upgrading and expansion of this infrastructure have been priorities for the district since 2010 . In order to support this effort and be in compliance with required minimum speed standards, The district has increased bandwidth to 600 Mbps. Our wi-fi coverage is excellent in all the school facilities. We do, however, look forward to the upgrade of some wireless networks to more current protocols

   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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.**

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	4,909	490.90	600	600	Currently Met

3. **Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.**

   The Guilderland Central School District Smart Bond Investment Plan will focus on the enhancement of classroom technology. Following is the budget in the preliminary plan proposed by the Smart Schools Investment Plan Committee and presented to the Board of Education for initial approval. Proposed projects have been aligned with one of the four main categories for SSBA funding Upgrades in connectivity described here will support the district's efforts to establish 1:1 learning opportunities for grades 6-12. Additionally, our ability to operate a digital media program will be enhanced. Significant improvements to our digital media system will be made by purchasing new equipment to upgrade antiquated equipment (analog) to digital systems. This will afford all students greater opportunity to create, produce, and share contemporary products to the entire school community and beyond. Our student news program will also benefit from this project. Purchase of related servers, switches, and uninterrupted power supplies will also be made to ensure that adequate infrastructure is able to support such projects.

Smart Schools Investment Plan - Revised - SSIP- HS Media

School Connectivity

4. **Describe the linkage between the district's District Instructional Technology Plan and how the proposed projects will improve teaching and learning. (There should be a link between your response to this question and your responses to Question 1 in Section IV - NYSED Initiatives Alignment: "Explain how the district use of instructional technology will serve as a part of a comprehensive and sustained effort to support rigorous academic standards attainment and performance improvement for students."**

   Your answer should also align with your answers to the questions in Section II - Strategic Technology Planning and the associated Action Steps in Section III - Action Plan.)

   The Guilderland Central School District has and will continue to, establish a fully-connected learning environment for all learners. To this extent, we will maintain a robust infrastructure as the foundation for connection of district-provided devices (Chromebooks, iPads, laptops) and student-owned devices. Our goal has been to establish 1:1 environment whereby students and teachers are able to connect at any point, to engage students and maximize learning. We have established a Google Apps for Education (GAFE) which has greatly enhanced efficiency in learning, collaboration, and the curation of content and information. Additionally, remote connectivity with experts in the field, universities, authors, other schools, and classes, etc. will extend learning experiences well beyond the walls of our classrooms. The proposed project will ensure that all technology-enhanced learning activities (Classroom Learning Technologies) and opportunities can be facilitated without delay or obstruction caused by inadequate connectivity and infrastructure. Desktop virtualization will further enhance this 1:1 effort by making available to students critical applications which may not be readily available on stand-alone devices. Our implementation of a 1:1 model will also ensure equity in access and maximization of technology-enhanced learning applications. Related, our improved digital media production capabilities will greatly enrich technology-based communications and 21st-century projects. Upgrades to our high school digital media systems, as described, will afford all students expanded opportunities to share media projects with their school community and beyond. These systems will integrate with large-group instructional spaces and ourlocal broadcast systems. School-wide communications through our Student News programs will also be enhanced. Such opportunities maximize student engagement and creativity. The broadcast of media productions to a broader audience is a tremendous motivator for students. Additionally, digital media systems will be used by our student Technology Help Desk (FCAST) top create video tutorials for teachers and peers. This will serve as an invaluable resource while transitioning to a 1:1 environment., Improved school connectivity via the components and systems described below will enable effective use of classroom learning technologies.

5. **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 worked closely with a consultant to evaluate wireless connectivity in all sites and locations. We have achieved full saturation whereby access points are installed in all classrooms and common learning spaces. Additionally, we wish to upgrade to current standards and wireless protocols where necessary. Such upgrades have been outlined in SSIP! and will be essential for planned upgrades to classroom technology as described in the SSIP.

6. **Smart Schools plans with any expenditures in the School Connectivity category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.**
   Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
01-08-02-06-7-999BA1

7. **Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.**

   Was your project deemed eligible for streamlined review?

   Yes

Smart Schools Investment Plan - Revised - SSIP- HS Media

School Connectivity

7a. **Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.**

☑   I certify that I have reviewed all installations with a licensed architect or engineer of record.

8. **Include the name and license number of the architect or engineer of record.**

Name	License Number
Daniel D. Woodside	28237

9. **Public Expenditures – Loanable (Counts toward the nonpublic loan calculation)**

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be Purchased	Quantity	Cost Per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

10. **Public Expenditures – Non-Loanable (Does not count toward nonpublic loan calculation)**

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	D- LINK-24 Port Managed Network PoE Switch with SFP Uplink Ports D-Link Systems - Part#: DGS-1210-28P	1	427.00	427.00
Network/Access Costs	Crestron HDMI over Cat6 Transmitter VSGI - Part#: HD-TX-101-C-E	2	206.00	412.00
Connections/Components	VSGi Custom Installation Services (Labor Days) VSGI - Part#: VSG-INS-CUS	10	1,278.00	12,780.00
Network/Access Costs	Western Digital 8TB 2-Bay NAS Server VSGI - Part#: WDBWVZ0080JWT-NESN	1	500.00	500.00
Other Costs	QSC 6	2	236.00	472.00
Connections/Components	Tabletop Cable Well VSGI - Part#: CUB8	1	436.00	436.00
Connections/Components	Installation Hardware VSGI - Part#: HW-VSG-INS	1	250.00	250.00
Professional Services	DSP Programming VSGI - Part#: VSG-PROG-DSP	1	556.00	556.00
Connections/Components	Middle Atlantic 9 Outlet Power Conditioner with Surge Protection VSGI - Part#: PD-915R	1	98.00	98.00
Connections/Components	BirdDog Mini HDMI to NDI Encoder	1	743.00	743.00

Smart Schools Investment Plan - Revised - SSIP- HS Media

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	PUBLIC Items to be purchased	Quantity	Cost per Item	Total Cost
	VSGI - Part#: BDMINIHDMI			
Network/Access Costs	VSGi Integrated Room Maintenance - 1 Year VSGI - Part#: VSG-MNT-ARIR	1	1,239.00	1,239.00
Network/Access Costs	Crestron HDMI over Cat6 Receiver VSGI - Part#: HD-RX-101-C-E	2	206.00	412.00
Connections/Components	VSGi Custom XLR Wallplate Input VSGI - Part#: VSG-WP-CUS	12	25.00	300.00
Connections/Components	Crestron Digital Media Presentation Switcher and Control Processor Crestron Electronics - Part#: DMPS3-4K-150-C	1	3,122.00	3,122.00
Network/Access Costs	Crestron DM Receiver and Scaler Planar Systems - Part#: DM-RMC-SCALER-C	1	874.00	874.00
Connections/Components	Rack Shelves, Screws, and Accessories VSGI - Part#: RS-VSG-ACC	1	94.00	94.00
Professional Services	VSGi Custom Installation Services (Labor Days) VSGI - Part#: VSG-INS-CUS	12	1,278.00	15,336.00
Connections/Components	Rack Shelves, Screws, and Accessories VSGI - Part#: RS-VSG-ACC	1	125.00	125.00
Professional Services	Control System Programming VSGI - Part#: VSG-PROG-CRES	1	2,778.00	2,778.00
		53	14,471.00	40,954

11.   Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	4,909	122	5,031.00	2.42

12.   Total Public Budget - Loanable (Counts toward the nonpublic loan calculation)

	Public Allocations	Estimated Nonpublic Loan Amount	Estimated Total Sub-Allocations
Network/Access Costs	(No Response)	0.00	0.00
School Internal Connections and Components	(No Response)	0.00	0.00
Other	(No Response)	0.00	0.00
Totals:	**0.00**	**0**	**0**

13.   Total Public Budget – Non-Loanable (Does not count toward the nonpublic loan calculation)

Smart Schools Investment Plan - Revised - SSIP- HS Media

School Connectivity

	Sub-Allocation
Network/Access Costs	3,864.00
Outside Plant Costs	(No Response)
School Internal Connections and Components	17,948.00
Professional Services	18,670.00
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	472.00
Totals:	**40,954.00**

14.   School Connectivity Totals

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	40,954.00
Totals:	**40,954**

Smart Schools Investment Plan - Revised - SSIP- HS Media

Community Connectivity (Broadband and Wireless)

1. **Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in the community.**

(No Response)

2. **Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.**

(No Response)

3. **Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).**

☐ I certify that we will comply with all the necessary local building codes and regulations.

4. **Please describe the physical location of the proposed investment.**

(No Response)

5. **Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.**

Project Partners	Federal ID #
(No Response)	(No Response)

6. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	**0.00**	**0**

7. **If you are submitting an allocation for Community Connectivity, 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
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
Tower Costs	(No Response)
Customer Premises Equipment	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

Smart Schools Investment Plan - Revised - SSIP- HS Media

Classroom Learning Technology

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.

    In the 2016-17 school year, Guilderland CSD upgraded its infrastructure to support numerous technology-centered learning initiatives. The upgrading and expansion of this infrastructure have been priorities for the district since 2010 . In order to support this effort and be in compliance with required minimum speed standards, The district has increased bandwidth to 600 Mbps. Our wi-fi coverage is excellent in all the school facilities. We do, however, look forward to the upgrade of some wireless networks to more current protocols.

    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). If the district currently meets the required speed, enter "Currently Met" in the last box: Expected Date When Required Speed Will be Met.**

	Number of Students	Required Speed in Mbps	Current Speed in Mbps	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	4,909	490.90	600	600	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 Guilderland Central School District Smart Bond Investment Plan will focus on the enhancement of classroom technology. Following is the budget in the preliminary plan proposed by the Smart Schools Investment Plan Committee and presented to the Board of Education for initial approval. Proposed projects have been aligned with one of the four main categories for SSBA funding Upgrades in connectivity described here will support the district's efforts to establish 1:1 learning opportunities for grades 6-12. Additionally, our ability to operate a digital media program will be enhanced. Significant improvements to our digital media system will be made by purchasing new equipment to upgrade antiquated equipment (analog) to digital systems. This will afford all students greater opportunity to create, produce, and share contemporary products to the entire school community and beyond. Our student news program will also benefit from this project. Purchase of related servers, switches, and uninterrupted power supplies will also be made to ensure that adequate infrastructure is able to support such projects.

Smart Schools Investment Plan - Revised - SSIP- HS Media

Classroom Learning Technology

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.**

   Per the district's SSBA plan, this project will enhance common and school-wide technology applications. Our Digital Broadcast system will be upgraded at our high school to improve digital and media production programs. Additionally, this broadcast system will be used to improve community-wide communication and broadcasts via the public access channels.

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?")
   In addition, describe how the district ensures equitable access to instruction, materials and assessments and participation in the general curriculum for both SWD and English Language Learners/Multilingual Learners (ELL/MLL) students.

   The proposed purchases will maximize learning opportunities for students at all levels. All projects are closely aligned with the district's technology plan.
   Specialized purchases will ensure that students with divergent interests will be served well (e.g., Media production, journalism, etc). Additionally, enhancements to school-wide systems and spaces will provide new systems, spaces, and media for large- and small-group instruction. Digital broadcast systems and upgraded large-group and common instructional spaces will allow for extensive integration of programs and provide new opportunities to connect with experts in the field and/or global audiences.
   All proposed improvements to instructional technologies will be made possible and supported by replacement and/or upgrade to our rapidly aging systems. Closed captioning and translation will be available to support students with disabilities and English Language Learners. All students will have access to technologies via courses, clubs and targeted programs.

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.**

   Improvements and upgrades to our media studio and digital broadcast systems will greatly enhance our efforts to engage community members and parents. Via local access channels, all student and/or district programs can be broadcast to the community at large. Additionally, video conferencing and distance learning opportunities can be facilitated using the digital media systems included with this project.

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 Guilderland CSD has a robust professional development plan and program. Our Coordinator for Instructional Technology spearheads planning for professional development on technology applications. She chairs the district' Technology Cabinet which includes Technology Teacher Leaders from all schools. The Teacher Leaders often turnkey professional development/training opportunities in their respective schools. They also serve as instructional coaches whereby one-on-one training is provided directly to teachers. The collaborative and teacher-led model employed by Guilderland has insured that all teachers have access to direct, ongoing, and embedded PD.

   Additionally, Guilderland has served the entire Capital Region by hosting the Capital Region Google Summit featuring the EdTech team. By hosting, we are able to provide direct and intensive training on some of the most current and exciting instructional technology applications. This two-day conference hosted at Guilderland High School has drawn hundreds of attendees from throughout the northeast. Guilderland teachers are often, featured presenters. Google Apps for Education highlighted, but a wide variety of technology-enhanced applications are shared during this event. Problem-based learning, digital portfolios, learning management systems, and an array of other topics are presented. Dozens of Guilderland teachers have attended each year.

   Additionally, teachers in Guilderland participate in robust and active summer curriculum programs. In 2016, over 80 summer curriculum projects will be supported by the district. These opportunities are often focused on instructional technologies. The uninterrupted time and opportunity to collaborate with others ensure that technologies are deeply tied to curriculum and enhanced learning.

   In the Guilderland Central School District, our approach to professional development is to make certain that all educators have the best possible skills, content knowledge, and preparation for teaching. The needs of learners in the twenty-first-century demand innovative, progressive, and cutting-edge instruction. As such, the quality of our professional development programs is influenced by a variety of factors. The National Staff Development Council recognizes these variables as the essential standards for professional development in education. The standards are Context (learning communities, leadership, and resources), Process (data-driven, evaluation, research-based, design, learning and collaboration), content (Equity, quality teaching, family involvement) Quality professional development is a dynamic and fluid process. If appropriate structures are in place (context), a variety of best practices (processes) are used, and appropriate.

   Administrators Professional Development to support Google Apps, 1:1 learning, eDoctrina, SchoolTool, IEPDirect, organizational tools, and other data reports and other elevant apps. - Provided by Assistant Superintendent for Curriculum and Instruction, Coordinator for Instructional Technology, Coordinator for Data and Information, and others.

9. **Districts must contact one of the SUNY/CUNY teacher preparation programs listed on the document on the left side of the page 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.

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

   SUNY Albany

   9b. **Enter the primary Institution phone number.**

   (518) 442-4007

   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.**

   Dr. Jianwei Zhang

10. **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.

11. **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.

12. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

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	AKG K240 Studio Headphone VSGI - Part#: 2058X00130	2	63.00	126.00
Other Costs	VSGi Integrated Room Maintenance - 1 Year VSGI - Part#: VSG-MNT-ARIR	1	1,278.00	1,278.00
Other Costs	Wallplate Microphone Input VSGI - Part#: VSG-WP-CUS	1	125.00	125.00
Other Costs	Crestron 1:2 HDMI? Distribution Amplifier w/4K60 4:4:4 & HDR Support VSGI - Part#: HD-DA2-4KZ-E	1	250.00	250.00
Other Costs	Biamp 12x8 Digital Signal Processor with Dante, Acoustic Echo Cancellation, 2- Channel VoIP Interface, and Analog POTS Line VSGI - Part#: TesiraForte DAN VT	1	2,621.00	2,621.00
Other Costs	Gooseneck Microphone VSGI - Part#: MIC-18	1	436.00	436.00
Other Costs	Custom Cutout for Touchpanel VSGI - Part#: CUTOUT	1	187.00	187.00
Other Costs	Allen & Heath Dante Card for Mixing Console VSGI - Part#: AH-M-SQ-SDANTE-A	1	702.00	702.00
Other Costs	Audinate Dante License for Tricaster VSGI - Part#: Dante Virtual Soundcard	1	38.00	38.00
Other Costs	AKG Large Diaphragm Condensor Studio Microphone with Case & Shockmount for Voiceover AKG - Part#: C214	1	363.00	363.00
Other Costs	Wallplate with SDI Camera Inputs, XLR Audio Inputs & Outputs, and	1	38.00	38.00

Smart Schools Investment Plan - Revised - SSIP- HS Media

Classroom Learning Technology

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
	Connectivity for Portable Display Cart & Telepromter VSGI - Part#: CUSTOM			
Other Costs	Avteq Portable Cart for Display Avteq - Part#: RPS-400	1	518.00	518.00
Other Costs	Multimedia Lectern with 14RU Equipment Rack VSGI - Part#: LEX32	1	624.00	624.00
Other Costs	Planar 22 inch desktop monitor	2	133.00	266.00
Other Costs	Attero Tech 2x2 Dante Networked Audio Interface VSGI - Part#: unDIO2X2+	1	425.00	425.00
Other Costs	Crestron HDMI and VGA Wallplate Transmitter, White Planar Systems - Part#: DM-TX-200-C-2G-W-T	1	874.00	874.00
Other Costs	Crestron 7	1	875.00	875.00
Other Costs	Crestron Tabletop Touchpanel Mounting Kit VSGI - Part#: TSW-760-TTK-B-S	1	125.00	125.00
Other Costs	Crestron Tabletop Touchpanel Mounting Kit VSGI - Part#: TSW-760-TTK-B-S	1	427.00	427.00
Other Costs	Installation Hardware VSGI - Part#: HW-VSG-INS	1	334.00	334.00
Other Costs	PTZ Optics IP Based Joystick Camera Controller (Located in the Production Studio Control Room) PTZOptics - Part#: PT-JOY-G3	1	650.00	650.00
Other Costs	Adjustable Monitor Arm VSGI - Part#: C900S	1	170.00	170.00
Other Costs	Shure Talkback Microphone VSGI - Part#: 522	1	171.00	171.00
Other Costs	JBL Studio Monitor JBL - Part#: 305PMKII	2	144.00	288.00
Other Costs	PTZ Optics 12x Zoom Pan-Tilt-Zoom Camera with Newtek NDI Support PTZOptics - Part#: PT12X-NDI-WH	3	2,000.00	6,000.00
Other Costs	PTZ Optics Camera Wall Mount, White Huddlecam - Part#: HCM-1-WH	3	90.00	270.00
Other Costs	QSC 2 Channel Amplifier for 70V or 8O System VSGI - Part#: SPA2-200	1	450.00	450.00
Other Costs	Allen & Heath 48 Input Digital Mixing Console Allen & Heath - Part#: AH-	1	2,820.00	2,820.00

Smart Schools Investment Plan - Revised - SSIP- HS Media

Classroom Learning Technology

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
	SQ-5			
Other Costs	Cables & Connectors VSGI - Part#: C-C	1	1,668.00	1,668.00
Other Costs	Newtek TriCaster Mini Advanced HD-4 sdi Education Bundle - includes TriCaster Mini HD-4 sdi (w/ Integrated Display and 2 nternal Drives), TriCaster Mini CS, NewTek custom travel case and educational curriculum on a thumb drive NewTek - Part#: TCMASDIE-Bundle	1	11,315.00	11,315.00
Other Costs	Cables & Connectors VSGI - Part#: C-C	1	2,362.00	2,362.00
Other Costs	QSC 2 Channel Amplifier for 70V or 8O System, 60W Per Channel QSC - Part#: SPA2-60	1	388.00	388.00
Other Costs	Avteq Portable Cart for Display Avteq - Part#: RPS-400	1	518.00	518.00
Other Costs	Onstage stands round base.microphone stand above vsgi part #: MS7201QRB	2	34.00	68.00
		42	**33,216.00**	**37,770**

13. **Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)**

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	4,909	122	5,031.00	2.42

14. **If you are submitting an allocation for Classroom Learning Technology complete this table.**

	Public School Sub-Allocation	Estimated Nonpublic Loan Amount (Based on Percentage Above)	Estimated Total Public and Nonpublic Sub-Allocation
Interactive Whiteboards	(No Response)	0.00	0.00
Computer Servers	(No Response)	0.00	0.00
Desktop Computers	(No Response)	0.00	0.00
Laptop Computers	(No Response)	0.00	0.00
Tablet Computers	(No Response)	0.00	0.00
Other Costs	37,770.00	0.00	37,770.00
Totals:	**37,770.00**	**0**	**37,770**

Smart Schools Investment Plan - Revised - SSIP- HS Media

Pre-Kindergarten Classrooms

1. **Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.**

    (No Response)

2. **Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:**

    - Specific descriptions of what the district intends to do to each space;
    - An affirmation that new pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
    - The number of classrooms involved;
    - The approximate construction costs per classroom; and
    - Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

    (No Response)

3. **Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.**

    (No Response)

4. **All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.**

    Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

5. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0

6. **If you have made an allocation for Pre-Kindergarten Classrooms, 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
Construct Pre-K Classrooms	(No Response)
Enhance/Modernize Educational Facilities	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

Smart Schools Investment Plan - Revised - SSIP- HS Media

Replace Transportable Classrooms

1. **Describe the district's plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.**

(No Response)

2. **All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.**

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. **For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.**

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

(No Response)

4. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	**0.00**	**0**

5. **If you have made an allocation for Replace Transportable Classrooms, 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
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

Smart Schools Investment Plan - Revised - SSIP- HS Media

High-Tech Security Features

1. **Describe how you intend to use Smart Schools Bond Act funds to install high-tech security features in school buildings and on school campuses.**

(No Response)

2. **All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Smart Schools plans with any expenditures in the High-Tech Security category require a project number from the Office of Facilities Planning. Districts must submit an SSBA LOI and receive project numbers prior to submitting the SSIP. As indicated on the LOI, some projects may be eligible for a streamlined review and will not require a building permit.**
Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. **Was your project deemed eligible for streamlined Review?**

☐ Yes
☐ No

4. **Include the name and license number of the architect or engineer of record.**

Name	License Number
(No Response)	(No Response)

5. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	**0.00**	**0**

6. **If you have made an allocation for High-Tech Security Features, complete this table.**
Enter each Sub-category Public Allocation based on the the expenditures listed in Table #5.

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	**0.00**

Smart Schools Investment Plan - Revised - SSIP- HS Media

Non-Public Schools

1. **Describe your plan to utilize SSBA funds to purchase devices and loan to the nonpublic schools within your district. Please specify what devices have been requested by the nonpublic schools. If the nonpublic schools have not finalized requests, the district should provide the date nonpublic schools will submit the request by.**

   We already reached the $250 per-pupil maximum in a previous SSIP.

2. **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.

   2a. **Please enter the date each year nonpublic schools must request loanable items from the school district. This date cannot be earlier than June 1 of the previous school year.**

   (No Response)

3. **Final 2014-15 BEDS Enrollment to calculate Nonpublic Sharing Requirement (no changes allowed.)**

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	4,909	122	5,031.00	2.42

4. **Nonpublic Loan Calculator**

	Loanable School Connectivity	Loanable Classroom Technology	Additional Nonpublic Loan (Optional)	Estimated Per Pupil Amount - This Plan	Previously Approved Per Pupil Amount(s)	Cumulative Per Pupil Loan Amount	Final Per Pupil Loan Amount - This Plan	Final Total Loan Amount - This Plan
Required Nonpublic Loan	0.00	37,770.00		7.69	250.00	250.00	0.00	0.00
Final Adjusted Loan - (If additional loan funds)	0.00	37,770.00	(No Response)	7.69	250.00	250.00	0.00	0.00

5. **Nonpublic Share**

	Final Per Pupil Amount	Final Nonpublic Loan Amount
Pending and Previously Approved Plans	250.00	30,500.00
This Plan	0.00	0.00
Total	250.00	30,500.00

6. **Distribution of Nonpublic Loan Amount by School**

Nonpublic School Name	2018-19 K-12 Enrollment	Special Ed School? If Yes, not eligible
ST MADELEINE SOPHIE SCHOOL	108	No

7. **Please detail the type, quantity and per unit cost of the eligible items under each sub-category.**

Select the allowable expenditure type. Repeat to add another item under each type.	Items to be purchased	Quantity	Cost Per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	0.00
		0	0.00	0