Smart Schools Investment Plan - Revised - Middletech2

SSIP Overview

Institution ID
800000038226

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

Terrence Gillooley

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

518-827-3623

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

terry.gillooley@middleburghcsd.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.

☑ Parents
☑ Teachers
☑ Students
☑ Community members
☐ The district was unable to meet with each group of stakeholders due to an emergency need as a result of the COVID-19 crisis.

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:

☑ 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 school board was unable to conduct a hearing that enabled stakeholders to respond to the preliminary plan due to an emergency need as a result of the COVID-19 crisis.
☑ 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.

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.

MCS Smart School Bond Act Power Point.pptx

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.middleburghcsd.org/wp-content/uploads/2019/05/MCS-Smart-School-Bond-Act-Power-Point.pdf

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.

850

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:

$922,936

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	763	0	763.00	0.00

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	60,180.00	60,180.00	0.00
Connectivity Projects for Communities	0.00	0.00	0.00
Classroom Technology	404,603.00	404,603.00	0.00
Pre-Kindergarten Classrooms	0.00	0.00	0.00
Replace Transportable Classrooms	0.00	0.00	0.00
High-Tech Security Features	39,820.00	39,820.00	0.00
Nonpublic Loan	0.00	0.00	0.00
Totals:			

Smart Schools Investment Plan - Revised - Middletech2

SSIP Overview

	Sub-Allocations	Expenditure Totals	Difference
	504,603	**504,603**	**0**

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.

Currently the District's internet speeds already meet the FCC requirement.

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	750	75.00	100	100	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 district plan is to update and enhance our infrastructure. Using the Smart School Bond money we will redesign and upgrade Wireless Access Points to allow 10GB or better throughout the district. Network "closet clean-up" with restructure of server environment with replacing switches and servers. In addition new cabling will replace outdated cabling throughout the buildings.

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.)

By improving our current infrastructure the district will meet the 21st Century educational environment. The BOE goals are a direct link to the Curriculum and Instruction.The BOE Goal #3 states "the BOE is committed to the success of all students by emphasizing high academic standards and providing a safe environment by support student learning by utilizing technology through the Smart Schools Bond Act resources." Providing one to one devices (tablets) in addition to laptops, other mobile computing devices, and interactive displays will provide students and staff with new technology in a safe, fast and secure environment.

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.

We currently meet the regulations of the FCC with our current system. With an updated wireless system (updated access points) the necessary broadband will be met to allow access in all buildings through the one to one initiative. Conversion to Office 365 will allow remote connectivity.

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
541001047999001

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

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
Matthew J Schools	40232

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
Connections/Components	MSA 2052 SAS Dual Controller SFF	1	9,841.00	9,841.00

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
	Storage Part #Q1J31A			
Connections/Components	MSA 14, 4TB SAS 10K SFF 6PK BUNDLE PART #ROP87A	2	2,593.00	5,186.00
Connections/Components	PROLIANT DL360 GEN10 - RACK MOUNTABLE NO CPU 0 GB PART #867959-B21	3	994.00	2,982.00
Connections/Components	DL360 GEN10 XEON-G 6212U F10 KIT PART #P02667-L21	3	1,364.00	4,092.00
Connections/Components	SMARTMEMORY-DDR4-32GB-DIMM 288-PIN-REGISTERED PART #P00924-B21	12	417.00	5,004.00
Connections/Components	240 GB SATA 6G READ INTENSIVE 2.5 PART #P04556-B21	6	98.00	588.00
Connections/Components	SMART ARRAY P408E-P SR GEN 10-STORAGE CONTROLLER(RAID)-SATA 6GB PART #804405-B21	3	398.00	1,194.00
Connections/Components	96W SMART STORAGE-BATTERY-LI-ION PART #P01366-B21	3	53.00	159.00
Connections/Components	SMART ARRAY P4081-A SR GEN10-STORAGE CONTROLLER (RAID) - SATA 6GB PART#804331-B21	3	235.00	705.00
Connections/Components	FLEX FABRIC 534FLR-SFP+-NETWORK ADAPTER PART #700751-B21	3	207.00	621.00
Connections/Components	SFP + TRANSCEIVER MODULE 10 GIGF PART #455883-B21	6	377.00	2,262.00
Connections/Components	POWER SUPPLY-HOT=PLUG/REDUNDANT-800 WATT-908 VA PART #865414-B21	6	152.00	912.00
Connections/Components	POWER CABLE-6 FT PART #AF556A	6	6.00	36.00
Connections/Components	INTEGRATED LIGHTS-OUT ADVANCED-LICENSE+3 YEARS 24X7 SUPPORT-1SER PART #BD505A	3	268.00	804.00
Connections/Components	ONEVIEW WITHOUT ILO ADVANCED-LICENSE+3 YEARS 24X7 SUPPORT - 1 SERV PART #P8B31A	3	260.00	780.00
Connections/Components	CABLE MANAGEMENT ARM - 1U PART #734811-B21	3	17.00	51.00
Connections/Components	TRUSTED PLATFORM MODULE 2.0 HARDWARE SECURITY CHIP PART	3	43.00	129.00

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
	#864279-B21			
Connections/Components	SMALL FORM FACTOR EASY INSTALL RAIL KIT RACK PART #874543-B21	3	42.00	126.00
Connections/Components	HPE POWER CORD-6FT	2	6.00	12.00
Connections/Components	FOUNDATION CARE SOFTWARE SUPPORT/EXTENDED SERVICE AGREEMENT - PART #H7J32A5#WAG	3	1,429.00	4,287.00
Connections/Components	MSA 2052 STORAGE SUPPORT PART #H7J32A5#RC1	1	2,675.00	2,675.00
Connections/Components	MINI-SAS HIGH DENSITY TO MINI-SAS-SAS EXTERNAL CABLES 3-6FT PART #716191-B21	6	88.00	528.00
Connections/Components	SMART UPS 4KW 5000VA W/ 208V TO 120/208V TRANSFORMER - PART # SUA5000R5TXFMR	1	3,940.00	3,940.00
Connections/Components	METERED RACK PDU AP7802B POWER DISTRIBUTION UNIT PART #AP7802B	1	672.00	672.00
Connections/Components	SYNOLOGY RACKSTATION RS3617RPXS NAS SERVER 0GB - PART #RS3617RPXS	1	3,566.00	3,566.00
Connections/Components	SYNOLOGY RKS1317 RACK SLIDE KIT PART #RKS1317	1	103.00	103.00
Connections/Components	SYNOLOGY DDR4 16GB DIMM 288-PIN UNBUFFERED PART #D4EC-2400-16G	3	400.00	1,200.00
Connections/Components	SYNOLOGY E10G17-F2-NETWORK ADAPTER	1	272.00	272.00
Connections/Components	WD RED PRO NAS HARD DRIVE WD6003FFBX-HARD DRIVE- 6TB SATA 6GB PART #WD6003FFBX	5	205.00	1,025.00
Connections/Components	CISCO MERAKI-SFP+TRANSCEIVER MODULE 10 GIG - PART#MA-SFP-10GB-SR	8	625.00	5,000.00
Connections/Components	TRIPP LITE 3M 10GB DUPLEX MULTIMODE 50/125 OM3 FIBER CABLE LC/CL AQUA 10' PART #N820-03M	6	14.00	84.00
Connections/Components	CISCO SFP-10G-SR=SFP+TRANSCEIVER MODULE	2	654.00	1,308.00

Select the allowable expenditure type. Repeat to add another item under each type.	**PUBLIC** Items to be purchased	Quantity	Cost per Item	Total Cost
	PART #SFP-10G-SR			
Connections/Components	C2G 3M LC-CL 50/125 OM2 DUPLEX MULTIMODE FIBER CABLE ORANGE PART #33029	2	18.00	36.00
		115	**32,032.00**	**60,180**

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	763	0	763.00	0.00

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)

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	60,180.00
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	**60,180.00**

14. School Connectivity Totals

	Total Sub-Allocations
Total Loanable Items	0.00
Total Non-loanable Items	60,180.00
Totals:	**60,180**

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**

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.

Currently the District's internet speed already meets the FCC requirement. In addition, with the items identified in our first Smart Schools Investment Plan - School Connectivity the infrastructure will be improved and continue to provide the maximum benefit.

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	750	75.00	100	100	n/a

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.

Redesign and upgrade Wireless Access Points to allow 10GB or better throughout the district. Working closely with our consultant identifying additional access points and improving cabling throughout the district.

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.

Recently the district converted to Office 365. The purchase of 1 to 1 devices will be completed after approval of submission to assure purchasing newest technology. District is currently "testing" various models to determine best option for students. The district has determined to purchase 1 to 1 Dell Latitudes, charging and storage stations will also be purchased for grades without 1 to 1 devices and a Epilog Laser printer will also be purchased.

Infrastructure - currently classrooms are equipped with necessary electrical, HVAC and other infrastructure (1st SSIP submission - school connectivity) that will allow the installation of equipment.

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 technology purchases by Middleburgh Central School District will be integral to addressing the critical instructional needs of the students. Students will be better able to access information using the appropriate technologies and devices, such as laptops, and laptop carts.. Wi-Fi already exists in every classroom. By January 2019, students in 7th - 12th grades, will have their own laptop purchased by the district, as will the teachers for those grades. Additionally 12 laptop carts with 30 computers on each station will be purchased for students in grades preK-6 and teachers. By leveraging the funds through an approved Smart Schools Investment Plan, the goal is for Webex Sparks to be installed on every classroom Smart Board. As a result the students will be able to engage in distance learning research opportunities as well as to tap in to state and local resources through virtual learning. During the lesson students will be able to use their laptop to connect with current whiteboards. They will even be able to connect from home if absent for the day or need to do so to review a lesson for homework purposes. The district is moving forward with the purchase of "Go Math" published by Houghton Mifflin Harcourt for Grades K-8. This program utilizes "Think Central" and "Holt McDougal Online"; a web based all-in-one- application that provides access to digital resources, activities and more for the Go Math series that students access from home. Additionally, teachers pull lessons for students to engage with on current white board. Parents can review lessons with their children at home using this application, as well. Student learning will be expanded both at school and home through the use of the hardware purchased through the Smart Schools Investment Plan. The district will increase student engagement through these online resources. Parents can work with their children from home and see their lessons from the parent portal, which is an important feature of the program. Additionally, the district is in the process of purchasing a core program to teach reading and writing skills in grades Kindergarten through eighth. Moving forward, the district will be targeting publishers that offer online consumables and assessments. This will save the district from purchasing consumables annually that add up to tens of thousands of dollars. The district has budgeted for a K-12 online intervention solution, Edgenuity's "Pathblazer" for grades K-6 and "My Path" for grades 7-12. This program will be used with students at the intermediate and Jr./Sr High school for Response to intervention on (RtI)Tier II and Tier III interventions. These programs are designed using a gradual release-instructional model, giving students the targeted instruction and practice they need to master each skill. Lessons include direct instruction, supported and independent practice and assessments. Personalized learning paths are created to offer students an individualized learning path focusing on the concepts they are reading to learn. Additionally, the district has budgeted for mClass: Reading 3D for students in grades K-6. With m:CLASS: Reading 3D, teachers will be able to quickly log observations and easily identify error patterns for any level; compare student progress with predictive, research based benchmark goals, translate assessment data into instructional support; and track progress and target instruction to individual needs using the devices purchased through the Smart School Investment Plan.
The Investment Plan will specify funding for devices, such as desktop computers or laptops for students in these specialized programs. Necessary assistive technology devices purchased by the district will connect to the teacher's computer. The district already purchases special software for high need students with Individualized Education Plans. The district currently enrolls four students who are identified as needing ELL services. Should students who are identified as ELL the resources purchased through the SSBA will be of great benefit to them. In the past BOCES has provided services to the district for one ELL student. The district would look to BOCES to use the devices purchased through SSBA for any ELL students that enter the district.
Engraver printer will be used in technology classroom including CADCAM, manufacturing, and architecture classes to provide hands-on, interactive technology to the classroom. This new technology in the classroom will engage students and create active learners. Engraving plastic and wood, building scale models and create designs for setup of cnc machining.
The district uses "NWEA MAP Growth"; a web-based screener to assess and progress monitor student growth in reading and mathematics. The Fountas and Pinnell Leveled Literacy Benchmark Assessment are also used to assess student learning and determine academic strengths and weaknesses. ". The web based applications and laptops will enhance differentiation of lessons as well. Teachers can tailor lessons directly to the students during their scheduled daily literacy and math centers. All of the appropriate instructional activities will be backed-up with appropriate and comprehensive professional development for faculty and staff.

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.

The District is interested in expanding learning opportunities outside of the classroom using the Office 365 platform, developing engaging and interactive instructional delivery techniques and increasing access to student specific performance data to address learning gaps. In an effort to improve Office 365. Access, the District is expanding wireless access to all instructional settings in all buildings and expanding the use of Microsoft Applications. Increased instructional technology will only enhance our distance learning program. Teachers are now able to access all curriculum and participate in the development of curriculum electronically and remotely. Teachers will begin to develop Office 365 knowledge for increased parent and student communication allowing for more individualized communication. Parent training targeting Microsoft Applications in Office 365 is scheduled for September 2018.

The purchases made possible by the Smart Schools Investment Plan will help improve communication with parents through the parent portal in our student management system. The K-6 ELA and math programs also allow parent and student access from home. Parents will have direct access to the teachers lessons in core curriculum areas. Scores of online assessments will be available immediately. Parents will have access to assessment information at the same time as teachers. More laptops in classrooms means for Middleburgh students more access to varied learning opportunities. Students will have easier access to online tests and quizzes which will help them to receive better instruction by increasing the teacher's ability to use student data to guide their instructional practice.

Teachers at all grades will have more opportunities to utilize "Office 365". This will enhance student-teacher communication and differentiated learning. Parents can view what students are working on when they are engaged in Office 365 work. Students will publish more work online for their parents to review.

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."

Middleburgh Central School District is firmly committed to providing the necessary and professional development to faculty and staff to ensure they are competently proficient to deliver the necessary instruction through modern technology. In June 2018, all Middleburgh staff completed an online survey to assess needs. The Middleburgh Professional Development Committee will be working to review the data to general necessary professional development opportunities based upon the survey results. Teachers will be involved in a minimum of 30 hours of professional development activities on an annual basis. These hours come from the MCSD Staff Development Days in the fall and spring, in addition to after school in-service programs, and on-line offerings. MCSD teachers attend district workshops or conferences that relate to student learning. Future professional development will emphasize improved student outcomes with a focus on data driven instruction, cooperative instructional grouping, rigor, explicit instruction, formative and summative assessment to differentiate instruction and creating assessments aligned to standards. New York State Next Generations Learning Standards are being imbedded into all curriculum areas, with a goal of more students reaching proficiency on the state assessments. Information has been shared with all stakeholders throughout the development of this plan.

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 Onenota

9b. Enter the primary Institution phone number.

607-436-3189

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. Lee Graham

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	Epilog Zing 24:x1	1	17,870.00	17,870.00
Other Costs	Dell Compact Cart Slide-In Docking Kit For Latitude 3190 2-in-1 - 36 devices	21	473.00	9,933.00
Laptop Computers	Dell Latitude 3190 2 in 1	750	473.00	354,750.00
Other Costs	Dell Mobile Computing Cart Unmanaged CMPCT36	21	1,050.00	22,050.00
		793	**19,866.00**	**404,603**

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

	Public Enrollment	Nonpublic Enrollment	Total Enrollment	Nonpublic Percentage
Enrollment	763	0	763.00	0.00

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	354,750.00	0.00	354,750.00
Tablet Computers	(No Response)	0.00	0.00
Other Costs	49,853.00	0.00	49,853.00
Totals:	**404,603.00**	**0**	**404,603**

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**

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**

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.

VoIP will allow the district to implement a fully supported Unified Communication system. This will greatly enhance our ability to connect with other places, institutions from all over the world.

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
54-10-01-04-7-999-001
54-10-01-04-7-999-BA1

3. Was your project deemed eligible for streamlined Review?

☑ Yes
☐ No

3a. Districts with streamlined projects must 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.

☑ By checking this box, you certify that the district has reviewed all installations with a licensed architect or engineer of record.

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

Name	License Number
SEI Design Group - Matthew Schools	40232

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
Electronic Security System	Cisco Router Maintenance	1	500.00	500.00
Electronic Security System	Cisco Router UC Bundle and associated licensing	1	7,000.00	7,000.00
Electronic Security System	Cisco IP Phone Professional Services configurations/install/phone deployments/migrations	1	32,320.00	32,320.00
		3	**39,820.00**	**39,820**

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.

High-Tech Security Features

	Sub-Allocation
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	39,820.00
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	**39,820.00**