

Instructional Technology Plan - Annually - 2016

LEA Information

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A. LEA Information

1. 2014-2015 Student Enrollment

	Total Enrollment	Pre-K Enrollment	K-2 Enrollment	3-5 Enrollment	6-8 Enrollment	9-12 Enrollment	Ungraded Enrollment
Student Enrollment	877	30	184	190	174	297	2

2. What is the name of the district administrator entering the technology plan survey data?

Matthew Perry

3. What is the title of the district administrator entering the technology plan survey data?

Director of Technology

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Instructional Technology Vision and Goals

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B. Instructional Technology Vision and Goals

1. Please provide the district mission statement.

The mission of the Alexander Central School District is to challenge students to be confident, contributing learners within a structured, safe and caring environment.

2. Please provide the executive summary of the instructional technology plan, including vision and goals.

Vision

The Alexander Central School districts technology plan focuses on technology as a tool to improve student's hands on learning and motivation. We see the vital importance of giving the classroom teachers the tools so they may act as guides in learning activities instead of just reciting facts and information. Our focuses are too incorporate technology into the regular curriculum, and provide the professional development that teachers need to use these tools with our students. Alexander's technology will benefit the students in the following ways:

- Give students the learning skills to adapt to the rapidly changing society..
- Learn how this information directly applies to their future in higher education or work in the outside world.
- Access, manipulate, exchange, and analyze information from electronic sources.
- Use technology not for just the sake of technology but see it used for all kinds of applications and allow the student to develop more uses for technology on their own
- Accommodate Teachers with their curriculum needs.
- Accommodate different/developing learning styles
- Provide easy access to information.
- Use technology for small group or full group instruction.
- Make technology a tool for teachers to use for instruction of any subject. **Goals Administration Goals:**
- Personnel will access information and preform document processing by using Applications.
- Enhance its digital communication between departments and school buildings.
- Use technology to keep and convert its student records electronically for better management.
- Access curriculum, instruction, and to point out potential week points in student learning.
- Communicate to the community through its parent portal of its student database system, webpage, and state run web based tools. **Communication Goals:**
- The advancement of Alexander's educational communications network for voice, video, and data. The district's network was developed and maintains its ability to interconnect all workstations, mobile laptop carts, smart classroom technology, school buildings, offices, and libraries. We have made it a goal to introduce a Wireless network to the district.
- The district would like to expand the available tools for students including collaborative group applications and cloud based software/storage.
- Every student, teacher, and staff member will continue to have access to high speed, filtered Internet through all computer equipment. We plan to expand this access through wireless technology. **Instructional and Curricular** The Alexander School District is using ISTE Standards to establish for each Administrator, Teacher, and Student mastery of computer and technology skills.
- Students: The district uses the standards as a guide for evaluating the skills and knowledge.
- Teachers: Teachers need to possess the skills and aptitude with the district's technology to integrate into their teaching.
- Administrators: The district's administration takes the leadership role in the support and implementation of technology in Alexander.
- Coaches: The District continues to use teachers and staff as Technology facilitators and technology integration specialists.
- Computer Science Educators: Our classes aim to go beyond the basic knowledge of the use of technology, and apply the skills to students to use software and web based applications to build content, communicate digitally with teachers and other students.

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3. Please summarize the planning process used to develop the instructional technology plan. Please include the stakeholder groups participating and outcomes of the instructional technology plan development meetings.

The Alexander School District uses a Technology committee that meets 3 times a school year to discuss its instructional technology plan. The current stakeholder group members of the Technology Committee are:

Alexander Technology Coordinator – Matthew Perry

School Librarian – Kristie Miller

High School Teacher – Carol D’Alba

Elementary Teacher – Missy Bakker

CSE Manager – Kim Maerten

Business Manager – Tim Batzel

Student - Hannah Paolucci

Parent - Jen Slenker

School Superintendent – Kathleen Maerten

The Technology committee meets in person at the beginning of the school year to discuss progress from the last meeting of the previous school year and what goals should be met through the current school year. In our last meeting of the 2015-2016 school year we discussed the investment plan for the New York Smart Bond Act to bring to the board of education in June to approve an open hearing on after 30 days’ notice on our website to give the community time to look over. The Tech Committee approved the preliminary Smart bond plan, and the school board approved having an open hearing on July 12th. The technology committee also approved a community questionnaire to be sent out to all families of the district at the beginning of the 2016-2017 school year to access what kind, if any, Internet access they have at home. The purpose of this questionnaire is to plan how the school might move to a 1:1 technology plan in the future.

The first meeting of the Technology committee in the 2016-2017 school year will focus on the results of the community questionnaire on internet access and discuss the advantages and limitations our community has with Internet access and how that should effect our technology plan for the future. By this first meeting of the school year, our Investment plan should be handed in to the State of New York for approval for the Smart Bond Grant, and may even be approved by this point. If approved the Technology committee will discuss the implementation and schedule of the Infrastructure upgrade and Wireless Meraki Network installation.

4. Please provide the source(s) of any gap between the current level of technology and the district's stated vision and goals.

- Access Points
- Cabling
- Connectivity
- Device Gap
- Network
- Professional Development
- Staffing
- Other
- No Gap Present

5. Based upon your answer to question four, what are the top three reasons causing the gap? If you chose "No Gap Present" in question four, please enter N/A.

The top three reasons for the technology gaps we have are:

1. A network upgrade of switches that have power over Ethernet. This will allow us to install access points throughout the district that will need these types of switches for their data and power needs.
2. A Cabling install to add Category 6a cabling to all the rooms that will have wireless access for better bandwidth speeds.
3. The installation of a wireless network to provide low cost mobile equipment to our students.

The district feels it can meet all of these challenges in its Smart Bond Investment plan.

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Instructional Technology & Infrastructure Inventory

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C. Technology and Infrastructure Inventory

1. Please identify the capacity of the telecommunications line coming into the district network hub. The district's Regional Information Center can provide the district with this information if needed.

- Greater than 10 Gbps
- 10 Gbps
- 1 Gbps - < 10 Gbps
- 100 Mbps - < 1 Gbps
- 50 Mbps - < 100 Mbps
- 10 Mbps - < 50 Mbps
- Less than 10 Mbps

2. What is the total contracted Internet bandwidth access for the district? Choose one.

- Greater than 10 Gbps
- 10 Gbps
- 1 Gbps - < 10 Gbps
- 100 Mbps - < 1 Gbps
- 50 Mbps - < 100 Mbps
- 10 Mbps - < 50 Mbps
- Less than 10 Mbps

3. What is the name of the agency or vendor from which the district purchases its primary Internet access bandwidth service?

GV / WFL Educational Technology Service (EduTech)

4. Please identify the capacity of the telecommunications line coming into the district's school building(s) from the district hub or district data center. The district's Regional Information Center can provide this information if needed

	Speed in Gbps or Mbps
Minimum Capacity	<ul style="list-style-type: none"> <input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input checked="" type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps
Maximum Capacity	<ul style="list-style-type: none"> <input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input checked="" type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps

5. Please identify the minimum and maximum circuit speeds at which the classrooms in the district are connected to the school building wiring/network closet.

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	Please provide the speed at which classrooms are connected to building wiring/network closet.
Minimum Circuit Speed Within a School Building	<input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input checked="" type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps
Maximum Circuit Speed Within a School Building	<input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input checked="" type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input type="checkbox"/> 10 Mbps - < 50 Mbps <input type="checkbox"/> Less than 10 Mbps

6. **What are the minimum and the maximum port speeds of the switches that are less than five years old in use in the district?**

	Port speed of switches	Mbps or Gbps
Minimum Capacity of Switches	0	<input checked="" type="checkbox"/> Mbps <input type="checkbox"/> Gbps
Maximum Capacity of Switches	0	<input checked="" type="checkbox"/> Mbps <input type="checkbox"/> Gbps

7. **What percentage of the district's wireless protocols are less than 802.11g?**

0

8. **Do you have wireless access points in use in the district?**

- Yes
- No

8a. **What percentage of your district's instructional space has wireless coverage?**

10

9. **Does the district use a wireless controller?**

Yes

10. **How many computing devices less than five years old are in use in the district?**

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Instructional Technology & Infrastructure Inventory

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	Number of devices in use that are less than five years old	How many of these devices are connected to the LAN?
Desktop computers/Virtual Machine (VM)	210	210
Laptops/Virtual Machine (VM)	48	48
Chromebooks	94	94
Tablets less than nine (9) inches with access to an external keyboard	0	0
Tablets nine (9) inches or greater with access to an external keyboard	14	14
Tablets less than nine (9) inches without access to an external keyboard	5	5
Tablets nine (9) inches or greater without access to an external keyboard	45	45
Totals:	416.00	416.00

11. What percentage of students with disabilities in the school district, as of the submission date of this technology plan, have assistive technology documented on their Individual Education Plan (IEP)?

10

12. Please describe any additional assistance or resources that, if provided, would enhance the district's ability to improve access to technologies for students with disabilities.

The Alexander School District still has very little wireless access coverage in the school district. The district currently has a preliminary investment plan for the Smart Bond Act that will be submitted to the state when the board of education gives its approval after the planned open hearing. This investment plan would allow the district to improve its infrastructure and allow for district wide wireless access. This full district wireless access would enhance the district's ability to provide mobile equipment like touch tablets to the students and teachers throughout the district and in every learning space the student travels to in the district. This would greatly improve access to technologies for students with disabilities.

13. How many peripheral devices are in use in the district?

	Number of devices in use
Document Cameras	59
Flat Panel Displays	0
Interactive Projectors	0
Interactive Whiteboards	59
Multi-function Printers	0
Projectors	63
Scanners	14
Other Peripherals	25
Totals:	220.00

14. If a number was provided for "Other Peripherals" please specify the peripheral device(s) and quantities for each.

The District has one 3D Printer in it's technology classroom.

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Instructional Technology & Infrastructure Inventory

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15. **Does your district have an asset inventory tagging system for district-owned equipment?**

Yes

16. **Does the district allow students to Bring Your Own Device (BYOD)?**

No

17. **Has the school district provided for the loan of instructional computer hardware to students legally attending nonpublic schools pursuant to Education Law, section 754?**

Yes

18. **What barriers may prevent the district from testing 100% of its grade 3-8 students and NYSAA students on computers by the year 2020?**

- Insufficient number of devices meeting testing requirements
- Lack of reliable Internet service
- Insufficient broadband access
- Inadequate staffing levels
- Insufficient testing spaces
- District does not foresee any barriers
- Other

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Software and IT Support

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D. Software and IT Support

1. What are the operating system(s) in use in the district?

	Is this system in use?
Mac OS Version 9 or earlier	No
Mac OS 10 or later	No
Windows XP	No
Windows 7.0	Yes
Windows 8.0 or greater	Yes
Apple iOS 7 or greater	Yes
Chrome OS	Yes
Android	No
Other	No

2. Please provide the name of the operating system if the response to question one included "Other."

(No Response)

3. What are the web browsers, both available and supported, for use in the district?

	Web Browsers available and supported for use
Internet Explorer 7	No
Internet Explorer 8	No
Internet Explorer 9 or greater	Yes
Mozilla Firefox	Yes
Google Chrome	Yes
Safari (Apple)	Yes
Other	No

4. Please provide the name of the web browser if the response to question three included "Other."

(No Response)

5. Please provide the name of the Learning Management System (LMS) most commonly used in the district. A Learning Management System (LMS) is a software application for the administration, documentation, tracking, reporting, and delivery of online and blended learning courses.

The district currently does not use a LMS.

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Software and IT Support

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6. Please provide the names of the five most commonly used software programs that support classroom instruction in the district.

The Five most used software Programs in the district are:

1. Microsoft Office 2010
2. Google Apps for Education
3. Study Island
4. Accelerated Reader
5. Castle Learning

7. Please provide the names of the five most frequently used research databases if applicable.

The five most used research databases are:

1. Brain Pop
2. Pebble Go
3. Student Resources
4. Opposing viewpoints
5. Gale PowerSearch

8. Does the district have a Parent Portal?

Yes

8a. Check all that apply to the Parent Portal if the response to question eight is "Yes."

- Attendance
- Homework
- Student Schedules
- Grade Reporting
- Transcripts
- Other

8b. If 'Other' was selected in question eight (a), please specify the other feature(s).

(No Response)

9. What additional technology-based strategies and tools, besides the Parent Portal, are used to increase parent involvement?

- Learning Management System
- Emergency Broadcast System
- Website
- Facebook
- Twitter
- Other

10. Please list title and Full Time Equivalent (FTE) count (as of survey submission date) of all staff whose primary responsibility is providing technical support. Does not include instructional technology integration FTE time.

Title	Number of Current FTEs
IT Coordinator	1.00
	1.00

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Curriculum and Instruction

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E. Curriculum and Instruction

1. What are the district's plans to use digital connectivity and technology to improve teaching and learning?

The Alexander school district has a Smart Schools Investment Plan that would install a wireless network throughout the district. The district's wireless network is currently only covers about 10% of the entire district. Our Smart Schools Investment plan would allow us to upgrade our infrastructure and install a wireless network to the entire district. The district's wired network only allows a few technology devices in the classroom. These devices tend to be Windows PCs at the cost of 2 to 3 times the price of a Chromebook. With a wireless network we can make it possible for teachers to have access to a full set of Chromebooks, or other mobile devices, right in their classroom. In the past teachers would compete for lab time if they wanted to use technology for their lesson, and would have to spend the time moving the class of students to the Lab. This would waste education time especially if the technology was only need for a small part of the class time. A wireless network will allow us to use technology in the classroom when it's needed. The district gave every student from the 4th grade to 12th grade access to their own Google apps for Education (GAFE) account in the 2015-2016 school year making Chromebooks, which are a fraction of the cost of a Windows PC, a perfect fit for our teachers who have years of experience with these GAFE accounts. A wireless network is essential for these new technologies.

2. Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials, and assessments?

Yes

2a. If "Yes", please provide detail.

The Alexander School District's Smart Schools Investment Plan which would upgrade our Infrastructure and add a wireless network to the entire district which would have many benefits to the needs of students with disabilities. The district's Technology Committee has the chair of CSE (Special Education) as a stakeholder member to make sure our SSIP considered these students in our plan. In the last 2015-2016 school year our special education classrooms started using mobile equipment with their students to either meet the requirements of their IEP, or act as a tool to help these students. Specifically we have been using iPads to help students who have communication issues and those devices can't use the wired network we have. The district can provide devices for these students, but with no wireless connectivity available through most of the district it limits the usefulness of this technology. The Smart Schools Investment plan will answer this issue and allow us to use these new mobile technologies anywhere in the district.

3. 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?

Yes

3a. If "Yes", please provide detail.

The use of assistive technology in the Alexander School district is hampered by the lack of connectivity in many of our classrooms. Then newer mobile technology needs wireless connectivity and in most cases has no ability to access the older wired ports in the classrooms. Additionally, a wireless network would allow us to connect as many devices as we would need in every classroom where our older wired access can only be applied to 2 devices at a time. The Alexander Tech Committee who has the CSE chair (Special Education) as a stakeholder member feel that a wireless network is the most important improvement to the district to bring proper access to assistive technologies to our students with disabilities to ensure access and participation in the general curriculum. The Smart Schools Investment plan at Alexander would improve our infrastructure and provide a wireless connection to every classroom, where only 10% have access now. This plan solves our connectivity issue and would be a major benefit to students who need these assistive technologies that so often require a wireless connection.

4. Does the district's instructional technology plan address the needs of English Language Learners to ensure equitable access to instruction, materials, and assessments?

 Yes

 No

Instructional Technology Plan - Annually - 2016Curriculum and Instruction

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- 4a. Please provide details. If the district plans to apply for Smart School Bond Act funds for Classroom Learning Technology, the answer to this question must be aligned with the district's Smart Schools Investment Plan (SSIP).**

There are many classroom learning technologies that can help address the needs of English Language learners. Most of these are newer mobile technologies that with internet connection can bring a host of translation applications, and learning English applications right to the student and teacher. Most of these applications would require an internet connection. The Alexander District Smart Schools Investment Plan meets this goal by upgrading our current infrastructure and adding a wireless network so we can provide this internet connection to any device in any part of the school. An English learner could use these translation applications or English learning applications in every classroom they are in with the connectivity of a wireless network. The Alexander Tech Committee believes that our Smart Schools Investment Plan would meet this goal and provide a lot of tools to our English Learning students and their teachers.

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Professional Development

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F. Professional Development

- 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 Alexander School District's technology plans for professional development:

2016-2017 School Year:

During the last school year the district saw the successful implementation of a Chromebook Pilot in our advanced placement English classroom. The success of the program allowed us to spread the program to 2 additional classrooms, and resulted in making Google Apps for Education accounts for every student from 4th grade to 12th grade. The district will look to focusing on Google Apps for Education professional development for teachers in the 2016-2017 school year.

Google Apps for Education (GAFE) / Chromebooks:

The district currently has three high school teachers who have become proficient in the use of Chromebooks, Google Classroom, Google Drive, and other Google Apps used in the classroom. Starting in September of the 2016-2017 school year one of those High School teachers will be working with the entire 5th Grade department of teachers to help train them in the use of these tools in the classrooms. The District will look for 3rd party training in Educator Fundamentals Training certification or Educator Level 1 training for teachers who are interested in learning more about GAFE.

At least 2 sessions will be planned to train our Teacher Aides in GAFE and the use of Chromebooks during the Superintendent days scheduled throughout the 2016-2017 school year. All trainings will be followed by Surveys to see what was most effective.

Edoctrina:

Edoctrina is assessment software first brought into the district in the 2014-2015 school year. During the 2015-2016 school year professional development was offered in how to use document cameras to quickly grade assessments in the teachers classroom. Every teacher in the High School and Middle School attended this training. In this coming 2016-2017 school year we will again offer at least one professional development class in the changes and upgrades in the Edoctrina assessment software to be taught by a representative of Edoctrina.

SMART Notebook:

Although the district is now no longer buying SMART Boards in the classroom, we will continue to purchase the Smart Notebook Software from SMART Technologies. We will offer 3 training sessions in the morning for the Elementary teaching staff in Late September and early October of 2016 to cover what's new in the software and how to use it effectively on any display device in the district. During the same time will offer at least 3 after school training classes for the Middle and High School teaching staff. These classes will be taught by the schools IT Coordinator.

iPads and IOS:

After the success of the iPad pilot program in the Kindergarten classrooms during the 2015-2016 school year we are adding a set of iPads to the 1st Grade. The Kindergarten teachers will be working directly with the 1st grade teachers in how to use the iPads in class, how to project the iPads to the whiteboard using Apple TV, and effective learning practices using the iPads in whole group instruction and in small group "Centers." Additional training in the use of iPads in the classroom will be provided by a representative from Lockport a neighboring school district which has a lot of experience with iPads in the classroom. This instruction will be with both the Kindergarten and 1st Grade teachers.

2017-2018 School Year

The Alexander Tech Committee will discuss plans for professional development for the 2017-2018 school year at its last meeting of the 2016-2017 school year. Surveys will be given to all participating staff at the end of all the professional development that takes place in the 2016-2017 school year. The responses from these surveys will help the Tech Committee with suggestions in what professional development will be needed for the 2017-2018 school year. It is certain that more professional development will be offered for Google Apps for Education (GAFE), Chromebooks in the classroom, and the Smart Notebook software.

- Please list title and Full Time Equivalent (FTE) count (as of survey submission date) of all staff whose primary responsibility is delivering technology integration training and support for teachers. Does not include technical support.**

Title	Number of Current FTEs
IT Coordinator	1.00
	1.00

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Technology Investment Plan

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G. Technology Investment Plan

1. **Please list the top five planned instructional technology investments in priority order over the next three years. Infrastructure is considered an instructional technology investment.**

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Technology Investment Plan

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	Anticipated Item or Service	Estimated Cost	Is Cost One-time, Annual or Both?	Funding Sources May choose more than one source
1	Switches	110,000	One Time	<input type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
2.	Network Cabling	86,000	One Time	<input type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
3.	Wi-Fi	72,000	One Time	<input type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
4.	Chromebooks	30,000	Both	<input checked="" type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
5.	Interactive Displays/Projectors/Whiteboards	60,000	Both	<input checked="" type="checkbox"/> BOCES Co-Ser Purchase <input type="checkbox"/> District Operating Budget <input type="checkbox"/> District Public Bond <input type="checkbox"/> E-Rate <input type="checkbox"/> Grants <input type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
Totals:		358,000.00		

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2. If "Other" was selected in question one, for items purchased or for a funding source, please specify.

(No Response)

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Status of Technology Initiatives and Community Involvement

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H. Status of Technology Initiatives and Community Connectivity

1. Please check any developments, since your last instructional technology plan, that affect the current status of the technology initiatives.

- Changes in District Enrollment
- Changes in Staffing
- Changes in Funding
- Technology Plan Implementation
- Computer-based Testing
- Catastrophic Event
- Developments in Technology
- Changes in Legislation
- Other
- None

2. In this section, please describe how the district plans to increase student and teacher access to technology, at home and in the community.

The Alexander School District Tech Committee are sending out a survey to all of our student's homes to learn what type of Internet access they have, if any. This was decided upon during our Last Tech Committee meeting in the 2015-2016 school year, and will be sent to our homes in the community at the beginning of the 2016-2017 school year. Alexander is a rural community and in many cases Internet providers do not offer access to many streets and areas in our community. The Tech Committee wants to discover not only how many of our homes have Internet access, but what type of access they have. The Committee is interested in how many homes have data caps, and how these homes would be affected by the district sending home internet capable technologies. During the 2015-2016 school year, the Alexander IT department gave every student from the 4th grade to the 12th grade their own Google Apps for Education (GAFE) account. These accounts give each student cloud space and cloud based applications to access their school work anywhere they have Internet access. These accounts could also affect data caps in our district homes that have them. The Tech Committee wants to use the data gained from this Survey to address how we might help the homes in our community gain access to more Internet providers and to hopefully help bring down the cost and offer alternatives with no data caps.

3. Please check all locations where Internet service is available to students within the school district's geographical boundaries.

- Home
- Community
- None

3a. Please identify categories of available Internet locations within the community.

The Alexander School District is located in a rural community. There are no businesses, public libraries, or any other community locations in the geographical boundaries of the district that offer Internet access to the community. The Alexander School District is the largest employer in the geographical boundaries of the District.

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- Please provide the timeline and major milestones for the implementation of the technology plan as well as the action plan to integrate technology into curriculum and instruction to improve student learning.**

The Timeline for the implementation of the technology plan:

The Timeline for the implementation of the technology plan:				
The Timeline for the implementation of the technology plan:				
Goal 1: Infrastructure upgrade. Every switch closet will get new Power over Ethernet switches to ready the district for the implementation of a district wide wireless network.				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
This installation will rely on the approval of the districts Smart Schools Investment Plan by the State. Now the final plan was approved in July of 2016 the plan will be turned into the state.	Staff will need no development training on this install. The switches will replace older aging data switches, increase bandwidth to the LAN and provide the power needed for Wireless access points.	GV / WFL Educational Technology Service (EduTech) and the Alexander IT Department.	Fall 2016	When the switches are installed and the Data and power are working throughout the district.

Goal 2: Cabling project				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
This installation will rely on the approval of the districts Smart Schools Investment Plan by the State. The EduTech team will install Cat 6a wiring to all the classrooms and offices that will need a wireless access point	Little will be needed in staff development for this installation. The wiring is needed for the installation of access points to insure higher bandwidth and power for the wireless network.	GV / WFL Educational Technology Service (EduTech) and the Alexander IT Department.	Fall 2016	When the wiring is complete and verified so we can install the wireless access points.

Goal 3: Admin workstation upgrade to new HP EliteDesk 800 G2 workstations with Windows 10				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
All software used with the admin offices will be verified to be compatible with Windows 10	All admin staff who receives a new workstation will get training in how to use Windows 10 and what has changed for Windows 7 to Windows 10	Alexander IT Department	FALL 2016	All older workstations running Windows 7 have been replaced in all the administration offices with the newer Windows 10 workstations, and all offices are fully operational.

Goal 4: Upgrade of existing Elementary mobile cart laptops (HP 6460b and 6470b laptops) to a 8GB RAM upgrade, SSD Hard drive upgrade, and a new Windows 7 image.				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
All 48 laptops on the mobile	Other than the speed	Alexander IT Department	FALL 2016	When all laptops have

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<p>carts will receive a hardware upgrade of 4GB of Ram to bring them to 8GB, and a new 256Gb SSD Hard drive to increase speed for more time efficient use in the classrooms. When the new Wireless network is installed, the traveling Access points will be retired .</p>	<p>difference the Laptop use will not be changed so no training is required. When the Wireless Network is install in the Winter of 2017 the teachers will no longer need to plug in the traveling Access Points to the network.</p>			<p>received their upgrade and are ready to be used in the classrooms.</p>
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<p>Goal 5: Adding a classroom set of Chromebooks to the 5th Grade department and the adding of a classroom set of iPads to the 1st Grade department.</p>				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
<p>A set of 20 Chromebooks will be placed in the 5th grade department for classroom use. A set of 20 iPads will be placed in the 1st Grade for classroom use. Wireless access points will be added to all classrooms in this project.</p>	<p>A high school teacher who piloted with Chromebooks will work with the 5th grade in how to use the Chromebooks and the GAFE applications. The Kindergarten will work with the 1st grade department in the proper use of the iPads, Apple TV, and app selection process.</p>	<p>Alexander IT Department</p>	<p>FALL 2016</p>	<p>Both departments are using their mobile technology in the classroom reliably.</p>

<p>Goal 6: Installation of Wireless Network</p>				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
<p>Once the Infrastructure upgrade is completed and the cabling installation is completed. This project will rely on the approval of the districts Smart Schools Investment Plan by the State.</p>	<p>Any staff that will need wireless activation of devices will have this done by the Alexander IT Department.</p>	<p>GV / WFL Educational Technology Service (EduTech) and the Alexander IT Department.</p>	<p>Winter 2017</p>	<p>When the Access points are all online and the wireless network is operational.</p>

<p>Goal 7: New classroom sets of Chromebooks in the Middle School and 4th Grade.</p>				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
<p>Teachers need to attend professional development offered by the district to bring Chromebooks into their classroom</p>	<p>Education 1 certification in GAFE or other professional development.</p>	<p>Alexander IT Department</p>	<p>Fall 2017</p>	<p>Successful use of Chromebook with the students in the classroom.</p>

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Goal 8: Replacement of aging Smart boards to newer touch display television sets between 65" to 70"				
Actions needed to Achieve Goal	Staff Development	Person(s) Responsible	Date Each Action Will Be Completed	Indication of Success
The aging Elementary Smartboards and projectors will be replaced by modern touch Television displays.	Staff will need basic training of the operation of the hardware. The district will continue to use the SMART Notebook software.	IT Technology and Maintenance department. Possible 3rd party installation.	Fall 2018	Replacement of all Smart Board in the Elementary classrooms.

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Monitoring and Evaluation

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J. Monitoring and Evaluation

- Please describe the proposed strategies that the district will use to evaluate, at least twice a year, whether the district’s instructional technology plan is 1) meeting the vision and goals as outlined in the plan and 2) making a positive impact on teaching and learning in the district.**

In the 2016-2017 School Year

September 2016

The district will hand out a survey to all the homes in the district to ask what type of, if any, Internet access they have at their home and whether they have a data cap.

October 2016

The Alexander Technology Committee will have their first meeting of the 2016-2017 school year. We will evaluate the responses from the home Internet survey we handed out in September. The goal is to see what access the students have at home and how the district might help those with little or no access, and whether the school sending home Internet technologies is feasible. After the board approval of the Smart School Investment Plan in July of 2016 we may have been approved by the state to go ahead with our plan, or we might still be waiting to hear from the State at this time. If the plan has been approved the Committee will discuss what questions should be put in a Google Survey that can be sent to all the teachers to see what they hope they will gain from the updated infrastructure and wireless network. The approved survey will be compiled with the questions the technology committee agrees on and will be sent out to the teachers, and possibly students.

February 2017

The Technology Committee will go over the responses to the survey sent out to Teachers and possibly students, on the New Infrastructure upgrade and Wireless network implementation. The committee will discuss the most common areas of interest brought up by the survey. It’s our hope that the survey will shine a light on what technologies would be a best fit to the school with our new connectivity, and what software or hardware should be investigated by the IT department for possible purchase in the future. The Committee will discuss the progress of the Smart Bonds Investment Plan.

May 2017

During our last meeting with the Technology Committee we will discuss the progress and possible finishing of the Smart Bond Investment Plan and what this will mean for the district in the 2017-2018 school year. The Committee will discuss how the school year went and what goals were most successful. The Technology Committee will reach out to the staff and students to get a progress report of how they felt the technology went in Alexander for the year before the May 2017 meeting and will use these answers for discussion in the meeting. The Technology Committee will set it’s goals for the 2017-2018 school year, what should be accomplished for the first meeting of the next school year, and what should be revised in our Technology Plan.

- Please fill in all information for the policies listed below.**

	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	http://www.alexandercsd.org/files/_HSAQ6_/96c00469b834cb833745a49013852ec4/Acceptable_Use_Policy.pdf	1997
Internet Safety/Cyberbullying*	http://www.alexandercsd.org/files/_HSAZ3_/be66c7ba721fe1543745a49013852ec4/Cyberbullying_Policy_7380.pdf	2009
Parents' Bill of Rights for Data Privacy and Security	http://www.alexandercsd.org/files/_HTALJ_/8d2cbda3cdf48f723745a49013852ec4/Parents_Bill_Of_Rights_for_Data_Privacy_and_Security.pdf	2015

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Survey Feedback

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K. Survey Feedback

Thank you for submitting your district's instructional technology plan (ITP) survey via the online collection tool. We appreciate the time and effort you have spent completing the ITP survey. Please answer the following questions to assist us in making ongoing improvements to the online survey tool.

1. Was the survey clear and easy to use

Yes

2. Was the guidance document helpful?

Yes

3. What question(s) would you like to add to the survey? Why?

(No Response)

4. What question(s) would you omit from the survey? Why?

(No Response)

5. Other comments.

(No Response)

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Appendices

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Appendices

1. **Upload additional documentation to support your submission**

(No Response)