

**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	7,098	398	1,643	1,496	1,609	1,869	83

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

Darlene Sprague

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

Director of Technology

# Instructional Technology Plan - Annually - 2016

## Instructional Technology Vision and Goals

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### B. Instructional Technology Vision and Goals

**1. Please provide the district mission statement.**

**Board Mission Statement**

The mission of the Niagara Falls Board of Education is to guarantee educational excellence by crating strategic goals which we will monitor, analyze, assess and evaluate utilizing the quality process and ensuring customer satisfaction.

**Technology Mission Statement**

The Niagara Falls City School District will continually monitor and adjust its comprehensive long-range Technology Plan for the school district and the community it serves to provide opportunities for all to compete successfully in a world-class environment.

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

The Niagara Falls City School District is committed to promoting and assessing the progress of utilizing technology in all schools and in our community. Over the past decade, focus has been on establishing technology as an integral part of the learning community.

The Technology Committee has sought to answer the questions of how and why technology has created a positive impact on education. The committee has endeavored to synthesize the best classroom practices, analyze existing research, and interview education experts to identify those educational objectives that technology can help achieve for the entire learning community. The District has adopted the National Education Technology Standards (NETS) as developed by the International Society for Technology in Education (ISTE) as the standards and performance indicators for our staff and students. The committee’s exploration identified several key findings that are reported herein:

- Education technology can improve student achievement
- Technology has the greatest impact when integrated into the curriculum to achieve clear, measurable educational objectives
- Assessment of technology must be aligned with educational objectives
- Measurement and continuous improvement strategies must be widely implemented in schools

It is believed that this Plan addresses these key findings.

**Vision**

The Niagara Falls City School District will utilize and integrate technology in an interactive community to be a world-class quality organization.

**Mission**

The Niagara Falls City School District will continually monitor and adjust its comprehensive long-range Technology Plan for the school district and the community it serves to provide opportunities for all to compete successfully in a world-class environment.

**Goals**

The primary goal of the Niagara Falls City School District’s Technology Plan is to improve student learning as measured by State and National standards.

- To provide for equity of services to our educational community
- To provide access to learning and resources throughout the world
- To provide students with the technology skills to be competitive in the worldwide market
- To increase technology use and integration in the classroom
- To provide access to on-line District curriculum and resources

**Objectives**

- To provide state-of-the-art technology and support to students, teachers, administrators, support staff, parents, and where appropriate, the general community
- To provide appropriate and continuous training for implementation and integration of all technology tools
- To continue to integrate technology into all curriculum areas
- To continue the process that targets all classroom software and in-service to align with the Common Core Learning Standards
- To graduate students from high school with the necessary skills for life-long learning
- To continue and expand collaborative relationships with institutions of higher education, businesses, community groups

**Standards**

The District has adopted the National Education Technology Standards (NETS) as designed by the International Society for Technology Education (ISTE).

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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 District has a Technology Committee charged with overseeing the technology employed by the District. The committee is composed of teachers, administrators, IT staff, parents, curriculum and instruction administrator, assessment administrator and support staff. The committee meets monthly. The committee reviews the action plans in the comprehensive technology plan at least quarterly. The action plans are reviewed to monitor progress and to re-evaluate the implementation or necessity of the action. Other meetings consist of reviewing emerging technologies for potential implementation.

The committee met on May 5, 2016, to thoroughly review the Instructional Technology Plan submitted in 2015 and to make adjustments before completing the 2016 version. A second meeting was held on June 9, 2016 to review revisions.

**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 causing the gap are 1.) The Professional Development Gap is significant due to the fact that there is very little time in the schedule to provide teachers and staff time to do professional development, as it is difficult to find substitutes to release teachers.. Most of the PD time taken during the day on Superintendent's Days are used for non-technology related professional development. 2.)the Device Gap; we are planning to use our Smart Schools Bond funds to close this gap. 3.) Staffing would be the third gap; other District expenses are a higher priority.

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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 - < 1Gbps
- 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?

Western New York Regional Information Center

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 Gpbs or Mpbs
Minimum Capacity	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Greater than 10 Gbps</li> <li><input type="checkbox"/> 10 Gbps</li> <li><input type="checkbox"/> 1 Gbps - &lt; 10Gbps</li> <li><input type="checkbox"/> 100 Mbps- &lt; 1 Gbps</li> <li><input type="checkbox"/> 50 Mbps - &lt; 100 Mbps</li> <li><input type="checkbox"/> 10 Mbps - &lt; 50 Mbps</li> <li><input type="checkbox"/> Less than 10 Mbps</li> </ul>
Maximum Capacity	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Greater than 10 Gbps</li> <li><input type="checkbox"/> 10 Gbps</li> <li><input type="checkbox"/> 1 Gbps - &lt; 10Gbps</li> <li><input type="checkbox"/> 100 Mbps- &lt; 1 Gbps</li> <li><input type="checkbox"/> 50 Mbps - &lt; 100 Mbps</li> <li><input type="checkbox"/> 10 Mbps - &lt; 50 Mbps</li> <li><input type="checkbox"/> Less than 10 Mbps</li> </ul>

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 checked="" type="checkbox"/> 1 Gbps - < 10Gbps <input 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 Circuit Speed Within a School Building	<input type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input checked="" type="checkbox"/> 1 Gbps - < 10Gbps <input 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	100	<input checked="" type="checkbox"/> Mbps <input type="checkbox"/> Gbps
Maximum Capacity of Switches	1	<input type="checkbox"/> Mbps <input checked="" type="checkbox"/> Gbps

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

5

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?

100

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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	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)	1,125	1,125
Laptops/Virtual Machine (VM)	5,618	5,618
Chromebooks	10	0
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	166	166
Tablets less than nine (9) inches without access to an external keyboard	0	0
Tablets nine (9) inches or greater without access to an external keyboard	0	0
<b>Totals:</b>	6,919.00	6,909.00

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)?

5

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.

We need to purchase the tablets that will give our Secondary level the capability of 1:1 computing in the classroom. We are planning on using a portion of the Smart Schools Bond funds for this purpose.  
 We really need funding for providing teachers with technology integration training. The funds to provide substitutes for teachers during the day, or funding to pay teachers for after school technology integration training.  
 Funding for tablets for some of our special education students to see if this technology moves them along in the curriculum. If this proves useful, more tablets and training would be needed.

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

	Number of devices in use
Document Cameras	416
Flat Panel Displays	1,219
Interactive Projectors	0
Interactive Whiteboards	414
Multi-function Printers	6
Projectors	41
Scanners	8
Other Peripherals	0
<b>Totals:</b>	2,104.00

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

(No Response)

## Instructional Technology Plan - Annually - 2016

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

Instructional Technology Plan - Annually - 2016

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	Yes
Windows XP	No
Windows 7.0	Yes
Windows 8.0 or greater	Yes
Apple iOS 7 or greater	No
Chrome OS	Yes
Android	Yes
Other	No

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

n/a

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."**

n/a

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.**

None used.



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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.

MiiQuest Tech Steps  
 MySciLearn (Scientific Learning)  
 Achieve 3000  
 Think Thru Math  
 APEX

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

World Book School and Library Edition - K-12  
 Proquest Direct - HS  
 Proquest Professional - HS  
 EBSCO - ABC-CLIO - HS  
 EBSCO - Science reference Center - HS

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.

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Software and IT Support

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Title	Number of Current FTEs
Sr. Network Engineer	1.00
Sr. Network Technician	1.00
Network Technician	1.00
Application Specialist	1.00
Technology Associate	6.00
IS Technical Specialist	1.00
Sr. AV Technician	1.00
AV Technician	1.00
	<b>13.00</b>

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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?**

TechSteps: The District adopted the TechSteps program for classroom use in grades Kindergarten to 8. TechSteps is a complete technology literacy curriculum and assessment product. There are six project or problem-based activities per grade level, with at least one from each of the four core curriculum areas: Literacy, Mathematics, Social Studies and Science. A committee of District teachers selected two projects to implement per grade level, though all instructors are encouraged to use additional projects from the optional Activity Library. All projects are curriculum based, allowing teachers to efficiently embed technology skills within the prescribed curriculum. The program includes an assessment component which allows a students' technology proficiency to be viewed and monitored from year to year.

Devices: The elementary classrooms have all received devices for 1:1 computers in the classroom. Our Smart Schools Investment Plan (SSIP) calls for the addition of devices for the 2 prep schools and the high school.

Other Initiatives: Also under the SSIP, equipment was included to create a CAD lab for the high school STEM curriculum: purchase of high end iMac stations for the Digital Design classroom; audio and video equipment for the student run Educational Access Channel TV station at the high school and for the 2 TV production stations at the prep schools.

**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.**

**Special Education – High Need Students**

- Inventing Tomorrow Capital Project provided 1:1 computing in elementary classrooms
- SSIP addresses addition of 1:1 computing in secondary schools
- Classroom and/or school- wide printing capability via the network
- Telecommunications capability including network access, library research, and the Internet
- Interactive Whiteboard and software
- Audio Enhancement system and headphones are employed
- Closed circuit TV using WinTV devices for projection of TV channels on the SMART Boards
- Students use Fast ForWord and Read 180 / System 44® and TeachTown® to enhance their instruction
- Large print computer accommodations and large print texts are used

**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.**

**Students Requiring Assistive Technologies**

Hardware and software is provided to students as required by their Individual Education Plan. Some examples of what has been supplied is Read, Write, Gold; Dragon naturally Speaking; large print software; Co:Writer Universal; iPads

**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

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Curriculum 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).**

**English Language Learner Classes** Each of these classrooms will have the telecommunications, research, and printing capabilities of the core classrooms, including Smartboards and audio enhancement hardware. Based on academic and technology standards, curriculum, and special needs, the following modifications have been recommended:

- Digital camera
- Scanner
- Portable Distance Learning cart (virtual field trips) in the STEM classroom
- Rosetta Stone software
- head phones

**Instructional Technology Plan - Annually - 2016**

Professional Development

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**F. Professional Development**

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Professional Development

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1. 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.

Strategy (ies)/ Activity (ies)	Person(s) Responsible	Implementation Timeline	Performance Measure/Data Source
Participate in Erie I BOCES Common Set of Learning Objectives (CSLO) program:  The Flipped Classroom  Technology Integrators Forum (TIF)	Administrator for IS Administrator for HRO District Curriculum Committees TRC T.E.M.P.S. LLC School administrators	On-going	Number of staff members who participate in CSLO activities
Integrate technology into District curriculum revisions such as:  Internet Safety  Common Core Technology Learning Objectives	Same as above Internet Safety Committee	On-going	District curriculum documentation  Integration in classroom  New curriculum matrices Internet Safety Survey
Provide various trainings to staff on technology integration: SmartBoard (Notebook Software) Training MiiQuest - TechSteps	Erie I BOCES WNYRIC IS Department Vendor	On-going	Use of SmartBoards and Notebook software in classroom activities
NY Learns Training	Administrator for IS T.E.M.P.S. LLC Teacher Leaders	On-going	Number of NY Learns teacher websites Use of NY Learns Curriculum resources
Provide various trainings to instructional staff on Web Subscriptions and Software: • RazKids • FASTT Math • Achieve 3000 • Castle Learning • Brain Pop • Microsoft Office 365	Administrator for IS Administrator for Curriculum and Instruction Administrator for Assessment School administrators T.E.M.P.S. LLC Erie I BOCES	On-going	• Attendance at professional development sessions • Integration of subscriptions and software into classroom activities
Provide various trainings to staff on the use of technology resources: • RTI Training • AIMSweb • NWEA (Northwest Evaluation Association)	• Administrator for IS • T.E.M.P.S. LLC • Central Curriculum and Instruction Group (CCIG) • Staff Development Steering Committee	On-going	• Use of RTI • Use of AIMSweb • Use of NWEA • Implementation of Health Master • PD events recorded in PDP Premier

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Professional Development

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<ul style="list-style-type: none"> <li>• Health Office</li> <li>• PDP Premier</li> <li>• PowerSchool/Gradebook Training</li> <li>• Test Wiz</li> <li>• Finance Manager (FM)</li> </ul>	<ul style="list-style-type: none"> <li>• Administrator for Curriculum and Instruction</li> <li>Administrator for Assessment</li> </ul>		<ul style="list-style-type: none"> <li>• Use of PowerSchool software by all staff</li> <li>• Use of Test Wiz</li> <li>• Use of FM</li> </ul>
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2. 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
Technology Integrator	0.60
Technology Mentors	1.00
	<b>1.60</b>

**Instructional Technology Plan - Annually - 2016**

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.**



Instructional Technology Plan - Annually - 2016

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	Tablets	3,500,000	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.	Desktops	364,000	Annual	<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 checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
3.	Instructional Software	295,000	Annual	<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
4.	Professional Development	121,245	Annual	<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.	Staffing	1,125,500	Annual	<input type="checkbox"/> BOCES Co-Ser Purchase <input checked="" 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
<b>Totals:</b>		5,405,745.00		

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Technology Investment Plan

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

(No Response)

**Instructional Technology Plan - Annually - 2016**

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 Technology Committee will be offering 4 Parent Technology Nights in the 2016-17 school year to assist parents and students in using instructional technology used by the District. There will be at least one session on Microsoft Office 365

The District will be rolling out Microsoft Office 365 which will give access to tools from anywhere in the community.

Time Warner Cable is merging with Charter Cable creating Spectrum. The District will contact Spectrum to see if any special deals on internet access are available to low income families.

Students in our elementary schools have 1:1 devices in the classroom. It is planned that the Prep and High Schools will receive theirs in 2016-17 with Smart Schools funds.

**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.**

- Public Libraries
- Local businesses
- Niagara Falls Housing Authority
- Schools
- Community Education Center
- Churches

**Instructional Technology Plan - Annually - 2016**

Instructional Technology Plan Implementation

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**I. Instructional Technology Plan Implementation**

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Instructional Technology Plan Implementation

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1. 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.

Goal	Actions needed to achieve goal	Timeline
Goal 1 To provide equity of services to the educational community	Implementation of 1:1 Computing in the Classrooms	Smart Schools Bond Act
Goal 2 To provide access to learning and resources throughout the world	Collaboration with Corporate/Community partners for technology infusion in the classroom	2015-18 - Roswell Park 2015- 18 NU – Bio 189 course 2015-18 – NCCC Drafting /Solidworks
Goal 2 To provide access to learning and resources throughout the world	Partnership with Universities in teacher preparation	2016-2017 STEM Camp (NU) Technology Fair (NU and Buffalo State)
Goal 2 To provide access to learning and resources throughout the world	Implement Office 365	2016-2017
Goal 2 To provide access to learning and resources throughout the world	PD to increase use of Virtual Field Trips and Distance Collaboration	STEM Classrooms/Program 2016-2017
Goal 2 To provide access to learning and resources throughout the world	Implement parent / student communication in School Wires	2016-2017
Goal 2 To provide access to learning and resources throughout the world	Communications to parents and the community to promote District technology initiatives	2016-2017 – Conduct 4 District Technology nights for parents and studnets
Goal 3 To provide students with the technology skills to be competitive in the worldwide market	Add digital resources curriculum renewal	2016-2018 - Curriculum Renewal
Goal 3 To provide students with the technology skills to be competitive in the worldwide market	<i>Integrate skills through project based learning (MiiQuest Tech Steps) with assessment component</i>	<i>2 projects per grade – 2016-2017</i>
Goal 3 To provide students with the technology skills to be competitive in the worldwide market	<i>Enhancement of District-wide STEM Program</i>	<i>School Year: 2016-2017 Lego – WeDo Robotics (elementary) MasterCam/Solidworks (high school) Summer STEM camp grades 5-10</i>
Goal 3 To provide students with the technology skills to be competitive in the worldwide market	<i>Creation of Competitive Internship Program in STEM-related fields</i>	<i>School Year: 2016-2017 -Biology 189 NU Step Program -Jr. Year (summer) Roswell Park program</i>
Goal 4 To increase technology use and integration in the classroom	<i>Effective use of pre/post assessment data to inform instruction using NWEA MAP testing</i>	<i>NWEA MAP testing in all schools in District during 2016-17 school year grades K-10</i>
Goal 4 To increase technology use and integration in the classroom	<i>Expanded use of NYS assessment data using annotated questions and item analysis cross referenced with NWEA MAP to set individual student goals.</i>	<i>School Year: 2016-2017</i>

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Goal 4 To increase technology use and integration in the classroom	Use staff assessment (Wayfind) of proficiency with technology results to drive PD	2016-2017
Goal 4 To increase technology use and integration in the classroom	PD Programs for teachers to increase depth in use of District defined technology resources	2016-2017 – MiiQuest (Tech Steps) MS Office 365
Goal 4 To increase technology use and integration in the classroom	Effective use of technologies to provide immediate feedback to inform instruction	2016-2017 – Continue Introduction of Kahoot tool
Goal 4 To increase technology use and integration in the classroom	Create a collaborative environment using Office 365 for students, teachers and parents	2016-2017 – Implementation
Goal 5 To provide access to on-line District curriculum and resources	Investigate a “Landing page” with District resources customized by groups	Selected Clever Implementation 2016-2017
Goal 5 To provide access to on-line District curriculum and resources	Create Strategy for Teacher Webpages (NY Learns, Schoolwires, Office 365)	2016-2017
Goal 5 To provide access to on-line District curriculum and resources	Investigate feasibility of NFCSD App	Feasibility study – 2016-2017
Goal 5 To provide access to on-line District curriculum and resources	Implement Bring Your Own Device (BYOD)	Staff completed in 2015-2016 Students 2016-2017

**Instructional Technology Plan - Annually - 2016**

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.**

The District will employ a variety of strategies to evaluate the plan.  
 MiQuest Tech Steps assessment will be used in grades 3-8 to evaluate progress towards meeting 21st century technology skills in each of the 3 plan years.  
 A survey will be administered to staff in the beginning of 2016-17 and again at the end of 2016-17 to determine if technology integration in the classroom has increased.  
 A survey will be given to students in grade 11 and 12 to determine technology readiness for post secondary education.

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

	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	<a href="http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/AUP%20Staff%202014.pdf">http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/AUP%20Staff%202014.pdf</a>	2014
Internet Safety/Cyberbullying*	<a href="http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/Policy%208271%20Childrens%20Internet%20Protection%20Act.pdf">http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/Policy%208271%20Childrens%20Internet%20Protection%20Act.pdf</a>	2012
Parents' Bill of Rights for Data Privacy and Security	<a href="http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/Policy%207250%20Student%20Privacy%20Parental%20Access.pdf">http://www.nfschools.net/cms/lib/NY19000301/Centricity/Domain/98/Policy%207250%20Student%20Privacy%20Parental%20Access.pdf</a>	2014

## Instructional Technology Plan - Annually - 2016

### 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)



**Instructional Technology Plan - Annually - 2016**

Appendices

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**Appendices**

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

Action Plans Only Final.docx

Action Plans for Technology Plan Survey Tool.docx