

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	1,816	76	398	389	407	535	11

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

James P. Newton

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

Superintendent

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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 Tonawanda City School District Technology Committee's mission is to improve student achievement by supporting instruction, programs, strategies and challenges in a caring, positive learning environment to ensure that each student will become a critical thinker, a lifelong learner, and a responsible, contributing citizen in an evolving technological world

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

INTRODUCTION

The school system encompasses the entire City of Tonawanda which is just under four square miles. There are 15,130 residents, per the 2010 census, with a median income at \$48,062. The per capita income for city residents is \$24,275. About 12.4% of the entire population lives below the poverty line. For children enrolled in the school district, 45.4% qualify for either free or reduced meal prices. A total of 19.3% of residents are under the age of 18.

EXECUTIVE SUMMARY

The Tonawanda City School District recognizes that technology is at the core of virtually every aspect of our daily lives and work, and we must leverage it to provide engaging and powerful learning experiences and content, as well as resources and assessments that measure student achievement in more complete, authentic, and meaningful ways. The Tonawanda City School District presents a model of learning powered by technology, with goals and recommendations in multiple areas.

VISION

Our vision is to equip each graduate with the technological skills necessary to be competitive in higher education, community, society and the world by providing the most current technology and staff development to promote student success. As a result of implementing this technology plan the following goals will be sought:

GOALS

Goal 1: 100% of students will have access to and use learning technologies to demonstrate proficiency of the 2007 ISTE standards for students by June 2018.

Goal 2: 100% of our staff members will participate in one professional development activity as per the ISTE 2008 standards for teachers by June 2018.

Goal 3: 100% of teachers will utilize technology in at least one lesson to support student learning and foster a professional learning community by June 2018.

Goal 4: 100% of students & staff will use technology by respecting the principles of intellectual freedom & intellectual property rights by June 2018.

Goal 5: 100% of staff will reinforce digital citizenship and Internet safety when integrating technology over the 2015-18 plan years

Goal 6: 80% of staff members will increase the effective use of digital environments to communicate and collaborate with the Tonawanda school community by 2018.

Goal 7: 100% off our school buildings will have an upgraded technology infrastructure that supports the City of Tonawanda School District's learning and work environment by 2018.

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Instructional Technology Vision and Goals

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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 Technology Committee will examine the progress of technology implementation and its integration into the curricula. The committee will meet two times during the school year to review and update the technology plan document. The technology will support the NYS standards and ISTE Standards.

The District Technology Committee consists of the following stakeholders:

Mary Beth Scullion - Asst. Superintendent for Curriculum and Instruction

James P. Newton - Superintendent

David Fiebelkorn - BOCES Computer Specialist

Jessica Lyons - High School Principal

Robert Starr - BOE Member

Jennifer Patterson - LMC Specialist

Patricia Bachman - LMC Specialist Assistant/Community member

Rachel Wagner - Instructional Coach

John Tryka - Special Education Teacher

Charles Hout - Elementary Teacher

Shawn Lodovico - Technology Teacher

Christopher Taylor - Music/Band Teacher

Colleen Andres - Math Teacher

Laura Schmidt - Science Teacher

Leanne Downey - Elementary Teacher/parent

Renee Brady - STEAM Instructional Coach

Meeting Dates were

February 9, 2016

• 2015 – 16 EDUCATIONAL TECHNOLOGY PLAN

- Wiring Update - Present switches will not handle – networks - access points - SED (Carl Thurneau). Gordon Jones - Clerk of the Works – will include BYOD - Guest log ins -
- Chromebooks/Laptops - Discussion around carts in rooms vs. 1:1
- Smart Schools - Plan still needs to be developed. There is 1.5 million dollars allotted for the district.
- Teacher Websites - Need to be current and updated during the school year.
- t budgeted for in the summer? Parent training night - teachnowledgy site – videos. Middle school requests - 41 minute time out due to the iPads. They log onto the filter and can't log out without timing out. Colleen Andres – New wireless controller -
- Offer mini-workshops after school - Create online courses for sustained professional development. Develop a warehouse of professional development.
- Online courses - this course is going to run for six weeks. If you finish in two weeks, then the teacher gets paid - try to get as many online courses as possible. - pulled into curriculum development - can actually go on and see what they are interested in. Get Chromebooks in everyone's hands. Permanent in house substitute. - budgeted for - receive benefits. -
- Insight - Feronics - Chrome extension for Insight - Beta test (Hive education) – can see every one of my student's screens.
- Mileham – more time
- Substitute sub - pay special are teachers to cover openings in classes. Leave early or come in late if they help cover classes.

TEACHER WEBSITES - PARENTS NOT BEING ABLE TO GET INTO GOOGLE CLASSROOM – CREATE A PUBLIC GOOGLE CALENDAR

June 15, 2016

2016 – 17 EDUCATIONAL TECHNOLOGY PLAN

- The 2016 – 17 technology plan was updated and will be submitted to SED for approval.
- Social Media discussion with the use of Twitter
- 1:1 Chromebook initiative was reviewed.
- STEAM activities will continue next year
- Infrastructure at elementary buildings will be updated.

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Instructional Technology Vision and Goals

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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

4a. Please specify if "Other" was selected in question four.

Technology Hardware Updates

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.

1. Waiting for SED approval on a \$500,000 Capital Project for technology infrastructure, which would include cabling, access points, and switches,
2. Cost of adding IT staff
3. Substitute shortage is affecting professional development during the school day

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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?

WNYRIC - ERIE 1 BOCES

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 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 Capacity	<ul style="list-style-type: none"> <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

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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Instructional Technology & Infrastructure Inventory

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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 checked="" 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 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	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?

15

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?

80

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)	836	836
Laptops/Virtual Machine (VM)	480	480
Chromebooks	1,650	1,650
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	21	21
Tablets less than nine (9) inches without access to an external keyboard	24	24
Tablets nine (9) inches or greater without access to an external keyboard	261	261
Totals:	3,272	3,272

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)?

3

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.

Wireless capability in the elementary buildings

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

	Number of devices in use
Document Cameras	20
Flat Panel Displays	836
Interactive Projectors	0
Interactive Whiteboards	80
Multi-function Printers	24
Projectors	180
Scanners	21
Other Peripherals	0
Totals:	1,161

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

(No Response)

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)?

Yes

Instructional Technology Plan - Annually - 2016

Instructional Technology & Infrastructure Inventory

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16a. On an average school day, approximately how many student devices access the district's network?

1,000

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	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	Yes

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

Zac Browser

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

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

1. i-Ready
2. Scholastic Reading Inventory
3. Castle Learning
4. Microsoft Office
5. Google Suite

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Software and IT Support

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

ProQuest
World Book
Brain Pop
SIRS Discoverer
Grolier Online

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

9a. Please specify if the response to question nine was "Other".

Tona E-News
Remind.com

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
Computer Specialist	2.00
Senior Computer Support	0.20
Support Assistant	1.00
	3.20

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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?

Technology Delivery

Ipads - Students use iPads and Google Docs to complete assignments. Several APPS for special education students are used.
 Acer/Dell laptop carts – laptops are used for research and project outcomes. Used for Diagnostic and formative assessments
 Chromebooks - Student G-mail accounts and staff Google accounts are created. Teachers can push out videos and work to students. Presentations can be made with Google docs. Assessments can be completed on the Chromebooks. Students can bring technology home and Flipped learning can take place.
 Digital Cameras – Pictures of assemblies and events. PR articles to newspapers include pictures. Photos are on the district website. Yearbook photos are taken.
 Interactive Whiteboards – Smartboards are used daily by most of the staff. Teacher lessons are presented and they encourage student engagement.
 Document Cameras – Show pictures and 3D objects - Great for labs, experiments, and demonstrations. Record and play back what is captured in the camera.
 3D Printer – A pictorial drawing can be used to actually create a three dimensional object prototype. (i.e. AutoCad drawing of a comb can be linked to the 3D printer and an actual comb will be produced).
 Drone – Used for aerial shots of the facility and video competitions. Can be used to teach aeronautics.
 Google Applications – Google Docs, Google sheets, Google store, Google slides, Google maps, Google G-mail, Google Earth
 Plotter – Plotter is used to print out architectural drawings for competitions and displays
 CNC Engraver – Nameplates/plaques/drawing
 APEX/GradPoint – Online Credit Recovery Learning – Great for non-traditional student
 Tandberg unit - Distance Learning capabilities
 Various STEAM activities including robotics and computer programming

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.

There are several iPad apps specifically for special education students. When we develop our Smart Schools Bond plan we will include funding for instructional technology purchases for SWD's.

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 **Technology-Related Assistance Act of 1988** is followed at TCSD and prior to textbooks being Board of Education (BOE) approved and purchased, it is guaranteed that all textbooks are available in multiple media sources to meet all students' needs.

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).**

ENL students have access to the same technology as regular education students. We do provide some additional support by using a program called *Imagine Learning* to meet their individual needs

Instructional Technology Plan - Annually - 2016

Professional Development

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F. Professional Development

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.

TOPICS	AUDIENCE	METHOD OF DELIVERY	SUMMARY
FLIPPED CLASSROOM	TEACHERS	BOCES TRAINERS SHOW TEACHERS HOW TO FLIP THEIR CLASSROOM. A MASTER TEACHER IS ALSO TRAINED BY A NATIONAL PRESENTER	FLIPPED CLASSROOMS ALLOW EDUCATORS TO CHECK STUDENT WORK DURING THE CLASS PERIOD. STUDENTS ARE ABLE TO WATCH LESSONS AT HOME OR IN THE LMC, SO THEY ARE PREPARED TO WORK DURING CLASS TIME.
GOOGLE CLASSROOM	TEACHERS	BOCES TRAINERS AS WELL AS GOOGLE EDUCATORS SHOW TEACHERS HOW TO USE GOOGLE DOCS, G-MAIL, GOOGLE DRIVE, GOOGLE SLIDES, GOOGLE MAPS, ETC...	AS OUR DISTRICT PURCHASES MORE CHROMEBOOKS, IT IS ESSENTIAL FOR TEACHERS TO BE TRAINED USING GOOGLE APPLICATIONS SO THAT THEY CAN TEACH THE PROGRAMS TO STUDENTS.
CAMTASIA	TEACHERS	BOCES TRAINERS SHOW TEACHERS HOW TO USE CAMTASIA IN THE CLASSROOM	CAMTASIA ALLOWS TEACHERS TO EDIT VIDEOS FOR INSTRUCTION
UPDATE TEACHER WEBSITES	TEACHERS	BOCES TRAINERS WILL PROVIDE STAFF DEVELOPMENT FOR TEACHERS TO HELP UPGRADE WEBSITES	TRAINING WILL ALLOW STAFF MEMBERS TO BE UP TO DATE WITH NEW APPLICATIONS TO FACILITATE COMMUNICATION BETWEEN THE CLASSROOM AND HOME
1:1 SUPPORT SYSTEMS	TEACHERS	INSTRUCTIONAL COACHES WILL PROVIDE WORKSHOPS FOR 1:1 MANAGEMENT OF CURRENT GOOGLE APPLICATIONS	TO ENHANCE STAFF SKILLS WITH GOOGLE APPLICATIONS TO HELP SUPPORT DAILY STUDENT USE OF TECHNOLOGY
DATA SECURITY AND PRIVACY OVERVIEW	TEACHERS	PRESENT AT FACULTY MEETING THE IMPORTANCE OF DATA SECURITY REGARDING STAFF/STUDENT USE.	KEEP STAFF MEMBERS CURRENT REGARDING STATE AND NATIONAL LAWS CONCERNING TECHNOLOGY AND SECURITY

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.

Instructional Technology Plan - Annually - 2016

Professional Development

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Title	Number of Current FTEs
Technology Integrator	0.40
Instructional Coach	2.00
	2.40

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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	Server/Network Software	300,000	Both	<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.	Interactive Displays/Projectors/Whiteboards	400,000	Both	<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.	Chromebooks	100,000	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
4.	3D Printers	50,000	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.	Other	300,000	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
Totals:	0	1,150,000	0	0

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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.

Safety/Security for the buildings - card access for doors, etc...

Professional Development

Staffing

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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.**

WE CURRENTLY HAVE A 1:1 INITIATIVE WITH CHROMEBOOKS FOR MIDDLE SCHOOL STUDENTS. MANY DEPARTMENTAL SUBJECT TEACHERS HAVE ASKED FOR CHROMEBOOK CARTS SINCE THEY SEE THE POTENTIAL FOR LEARNING THROUGH TECHNOLOGY. THE ELEMENTARY LEVEL TEACHERS ARE ALSO SEEING THE NEED FOR MORE CHROMEBOOKS AS WELL AS ADDITIONAL iPADS. THERE IS STILL A NEED FOR MACINTOSH COMPUTERS IN SOME TECHNOLOGY CLASSES. A GOAL WOULD BE TO HAVE TECHNOLOGY AVAILABLE IN ALL CLASSROOMS AT ANYTIME THROUGHOUT THE SCHOOL DAY. MOST STUDENTS HAVE ACCESS TO WI-FI AT HOME OR IN RESTAURANTS IN THE CITY. THEY CAN ALSO STAY AFTER SCHOOL IN THE LMC. HOWEVER, OUR POVERTY RATE HAS INCREASED AND THERE ARE HOMES THAT DO NOT HAVE ACCESS TO THE INTERNET. A GOAL WOULD BE TO HAVE BROADBAND THROUGHOUT OUR ENTIRE 3 1/2 SQUARE MILE COMMUNITY - WITH SMART SCHOOL FUNDS THAT COULD BE A POSSIBILITY.

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.**

Area Restaurants
 City Library
 Residence

Instructional Technology Plan - Annually - 2016

Instructional Technology Plan Implementation

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I. Instructional Technology Plan Implementation

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.**

GOALS

Goal 1: 100% of students will have access to and use learning technologies to demonstrate proficiency of the 2007 ISTE standards for students by June 2016.

- Students utilize technology as a means of academic intervention to close gaps in their learning.
- Students digitally create, store, and retrieve products that demonstrate understanding of the learning standards.
- Students use technology to communicate and collaborate with others as a means for demonstrating learning.

Goal 2: 100% of our staff members will participate in one professional development activity as per the ISTE 2008 standards for teachers by June 2016.

- Review current research on new and effective technology integration tools and resources.
- Explore how technology can offer alternative methods for professional development and storage of resources.
- Review ISTE standards and determine teacher competencies.
- Consider the use of full or half day staff development devoted to 21st century technology integration.

Goal 3: 100% of teachers will utilize technology in at least one lesson to support student learning and foster a professional learning community by June 2017

- Teachers will use on-line assessment(s) data accessed to drive instructional decisions regarding student achievement.
- Teachers and students will utilize an on-line platform (Google Drive or Moodle) in the classroom.
- Teachers will utilize an on-line platform (Google Drive or Moodle) for professional conversations to increase instructional capacity (Share an instructional video, blog, share student work, etc.).
- Teachers at each grade level designs lesson activities that require student access to web-based information and other technology resources.

Goal 4: 100% of students & staff will use technology by respecting the principles of intellectual freedom & property rights during the 2016-17 school year.

- Students & Staff will understand & respect intellectual property rights (e.g. copyright laws) as they apply to electronic
- Students & staff will know and practice good website evaluation techniques (authority, accuracy, bias, design, ease of navigation).
- Students & staff will learn how to cite references from a variety of sources.
- Students & staff will develop and practice an understanding of technology related ethical requirements for the world of work.

Goal 5: 100% of staff will reinforce digital citizenship and internet safety when integrating technology during the 2016-17 school year.

- Workshops from outside/community agencies
- Annual school wide assemblies to educate and inform students/parents regarding appropriate and safe use of the internet.
- Library media specialist/teacher developed lessons

Goal 6: 80% of staff members will increase the effective use of digital environments to communicate and collaborate with the Tonawanda school community during the 2016-17 school year.

- Approval for use of social media to communicate with the community (i.e. Facebook, Twitter)
- Encourage use of technology for teacher and parent communication (Active web pages, blogs, twitter, parent portal documents.)
- Educate parents and students for increased use of the Parent/Student Portal(Links to district home page to navigate parent portal.)
- Increase staff use of apps/social media to communicate with parents and students

Goal 7: 100% off our school buildings will have an upgraded technology infrastructure that supports the City of Tonawanda School District's learning environment by June 2017.

- Investigate and support the desirability, necessity, readiness, and feasibility of expanding the 1:1 program.
- Develop and adhere to a replacement plan.
- Investigate and ensure new technologies are compatible with infrastructure.

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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.**

THE DISTRICT TECHNOLOGY COMMITTEE WILL EVALUATE THE TECHNOLOGY PLAN TWICE A YEAR TO DETERMINE THE EFFECTIVENESS OF THE IMPLEMENTATION OF THE DISTRICT'S TECHNOLOGY PLAN TO IMPROVE TEACHING AND LEARNING. THE DISTRICT COMMITTEE WILL REVIEW ACTIONS TO DATE AND DETERMINE WHETHER OR NOT ACTION IS REQUIRED TO MAKE SURE THE PLAN FITS THE MOST RECENT GOALS AND STRATEGIES. AN ANNUAL SURVEY WILL BE DEVELOPED TO ASCERTAIN STAFF USE AND UNDERSTANDING OF TECHNOLOGY AS WELL AS PERCEIVED DEFICIENCIES RELATING TO HARDWARE, SOFTWARE, TRAINING AND CLASSROOM TIME SPENT USING TECHNOLOGY. A REPORT WILL BE PREPARED FOR THE TECHNOLOGY COMMITTEE AFTER THE SURVEY HAS BEEN ANALYZED. THE DISTRICT TECHNOLOGY COMMITTEE WILL MAKE ADJUSTMENTS BASED ON THE REVIEW PROCESS. CORRECTIVE ACTIONS WILL BECOME ADDENDUMS TO THE TECHNOLOGY PLAN. NOVEMBER AND MARCH WILL BE THE MEETING MONTHS. AT THE NOVEMBER MEETING THE SURVEY RESULTS WILL BE ANALYZED AND THE PLAN WILL BE ADJUSTED, IF NECESSARY. AT THE MARCH MEETING, THE ANNUAL PLAN WILL BE UPDATED.

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

	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	http://www.tonawandacsd.org/page/119	2012
Internet Safety/Cyberbullying*	http://www.tonawandacsd.org/site/default.aspx?PageType=14&DomainID=4&PageID=23&ModuleInstanceID=892&ViewID=1e008a8a-8e8a-4ca0-9472-a8f4a723a4a7&IsMoreExpandedView=True	2014
Parents' Bill of Rights for Data Privacy and Security	http://www.tonawandacsd.org/Page/2277	2014

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Survey Feedback

Page Last Modified: 07/12/2016

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?

None

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

None

5. Other comments.

(No Response)

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Appendices

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Appendices

1. Upload additional documentation to support your submission

Technology Goals and timeline 7 2016.docx