

**A. LEA Information**

1. **What is the total student enrollment based on the most recent BEDS Day submission?**

539

2. **What is the student enrollment by grade band based on the latest BEDS Day submission?**

	Enrollment
Grades K-2	136
Grades 3-5	118
Grades 6-8	115
Grades 9-12	162

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

Vivienne Frederick

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

Director of Technology

4a. **If the response to question four was "Other", please provide the title.**

(No Response)

### B. Instructional Technology Vision and Goals

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

The mission of the North Warren Central School District is to empower each student to reach his or her full potential. North Warren students will use technology across curricular areas in order to gather, evaluate, and manipulate information in meaningful ways, to define and solve problems, to collaborate and communicate, and to create and share original content.

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

We believe that technology integration across all grade levels and content areas can improve learning, increase achievement, and have a profound impact in preparing our students for successful entry to college, the workforce, and productive global citizenship.

We envision technology integrated across curricular areas in order to:

Enhance learning and actively engage students

Provide access to electronic learning materials and resources including text, multimedia, and other digital content related to the curriculum

Provide opportunities for communication and collaboration unbound by time and distance

Support the application of higher-level thinking, problem solving, and decision making skills

Promote creativity and address individual learning differences

Empower students to take more responsibility for their learning

Realization of this vision has three major components:

Access to and use of technology in support of curriculum and instruction

Training and support to insure integration into the curriculum

Continued evaluation of current and evolving technologies to support our vision

Goals in support of our Vision of Curriculum and Instruction:

North Warren Students will use technology tools effectively throughout their education in order to to acquire, analyze, create, and share information in a healthy, safe, and appropriate environment. Along these lines, students will develop the following skills:

Responsible and safe use of school and online resources

Keyboarding and proficiency with a suite of productivity tools

Researching and gathering information electronically

Evaluating resources and analyzing data appropriately

Using a variety of tools, both locally and on the world wide web, to organize and share information and ideas effectively

Creating original content in a variety of mediums including written text, graphical representation, presentation format, multimedia, and video

Communicating and collaborating within the school community and beyond

North Warren Staff will acquire technology skills necessary to support students to their fullest capacity. In order to accomplish this, teachers need to develop both technology literacy skills and methods for integration of technology into curriculum, instruction, and assessment. This includes:

Identifying, evaluating, and integrating technology resources

Using technology to address individual learning styles

Integrating technology into Units of Study

Using technology to support the application of higher-level thinking and decision-making skills

Using technology tools to develop, implement, and share curriculum, content, and strategies.

- 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.**

<b>DATE</b>	<b>PARTICIPANTS</b>	<b>PURPOSE</b>	<b>OUTCOMES</b>
Jun 2014	District Superintendent, Technology Coordinator, IT Department	Needs and goal setting	Articulated vision for IT; Set procedures and schedules for 2015
Jan 2015	District Superintendent, Technology Coordinator, IT Department	Needs and goal setting	Develop procedures and timelines for Comprehensive Technology Assessment.
Jan 2015	Technology Coordinator, Library Media Specialist, Building Maintenance	Library Upgrade Planning	Set goals for restructuring Library Media center to meet Instructional Goals.
Feb 2015	District Superintendent, Technology Coordinator, IT Department, Richard Wilhelm, Sr. System Consultant	Information Technology Assessment	Assessed current state of Information Technology Integration and identified areas of need (see Addendum)
Mar 2015	Technology Coordinator, Teaching Staff, Student Focus Groups, David Ashdown, WSWHE BOCES Model Schools Coordinator	Instructional Technology Integration Assessment	Collected data from staff and students; Assessed current state of Instructional Technology Integration and identified areas of need (see addendum)
Mar 2015	Board of Education, Community, District Administration,	Present findings and receive Feedback in Public Forum	Reviewed and discussed Information Technology

	Technology Coordinator		Assessment
Apr 2015	Superintendent, Library Media Specialist	Library Upgrade Planning	Visited exemplary Library Media Centers
Apr 2015	Board of Education, Community, District Administration, David Ashdown, WSWHE BOCES Model Schools Coordinator	Present findings and receive Feedback in Public Forum	Reviewed and discussed Instructional Technology Integration Assessment
May 2015	Technology Coordinator, IT Department, Richard Wilhelm, Sr. System Consultant	Follow-up Information Technology Assessment and next steps	Set goals and Implementation Guidelines
May 2015	Technology Coordinator, IT Department, David Ashdown, WSWHE BOCES Model Schools Coordinator	Follow-up Instructional Technology Integration Assessment and next steps	Set goals and Implementation Guidelines
May 2015	District Superintendent, Technology Coordinator, IT Department	Technology Plan Development	Reviewed Draft Plan
Jun 2015	Shared Decision Making (Representation including Administration, Staff, Students, Parents, Community)	Review Plan and receive Feedback	Finalized Instructional Technology Plan for submission

**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 (Checked)  
Connectivity (Checked)  
Device Gap (Checked)  
Network (Checked)  
Professional Development (Checked)  
Staffing (Checked)

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

(No Response)

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

During the spring of 2015, North Warren completed a detailed analysis of the current state of Technology. This process included a comprehensive assessment and needs analysis under the direction of Richard Wilhelm, Sr. System Consultant (addendum) and a report of the state of Instructional Technology Integration under the direction of David Ashdown, WSWHE BOCES Model Schools Coordinator. Key challenges identified are:  
Internet Bandwidth to support increasing number of devices and demands of Cloud Based Computing.  
Infrastructure upgrades including wireless, switching, and security to support new devices and applications.  
Ongoing and sustainable Professional Development in support of teaching and learning.

**C. Technology and Infrastructure Inventory**

1. **What is the available network broadband bandwidth? Please express speed in Mb (Megabits) or Gb (Gigabits). \***

	Minimum Capacity (Expressed in Mb or Gb)	Maximum Capacity (Expressed in Mb or Gb)
Network Bandwidth: Incoming connection TO district schools (WAN)	NA	NA
Internal Network Bandwidth: Connections BETWEEN school buildings (LAN)	NA	NA
Bandwidth: Connections WITHIN school buildings (LAN)	100Mb	1000Mb

2. **What is the total contracted Internet access bandwidth for your district? Please express speed in Mb (Megabits) or Gb (Gigabits).**

50Mbps down; 5Mbps up

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

Time Warner Cable

4. **Which wireless protocols are available in the district? Of these, which are currently in use? Check all that apply.**

	Available/In Use
802.11a	(No Response)
802.11b	Available (Checked) In Use (Checked)
802.11g	Available (Checked) In Use (Checked)
802.11n	(No Response)
802.11ac	(No Response)
802.11ad	(No Response)
802.11af	(No Response)

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

Yes

5a. **What percentage of your district's instructional space has wireless coverage?**

100

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

Yes

7. **What is the port speed of the switches that are less than five years old in use in the district?**

1000Mb

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

	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)	182	182
Laptops/Virtual Machine (VM)	90	90
Chromebooks	120	120
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	0	0
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	56	56
<b>Totals:</b>	448.0	448.0

9. **Of the total number of students with disabilities in your district, what percentage of these students are provided with assistive technology as documented on their Individualized Education Programs (IEPs)?**

9

10. **From your technology needs assessment, please describe any additional assistance or resources that, if provided, would enhance the district's ability to provide improved access to technologies, including assistive technologies, for students with disabilities.**

In order to better leverage the potential of Assistive Technologies, the North Warren Assistive Technology Team (IT Coordinator and Special Education Teacher) would benefit from greater exposure to emerging technologies, access to experts in the field, and additional training in assessing needs and designing modifications for all students with an IEP. In cases which prove to be more involved, funding should be made available for outside resources to provide an in depth assessment and follow-up. Once assessment is complete and technologies are chosen to meet specific needs, special education providers need training to fully support students with identified needs. In addition, all teachers need training in adaptive and assistive technologies as a means of supporting and individualizing learning.

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

	Number of devices in use that are less than five years old
Document Cameras	23
Flat Panel Displays	7
Interactive Projectors	6
Interactive Whiteboards	3
Multi-function Printers	16
Projectors	31
Scanners	1
Other Peripherals	0
<b>Totals:</b>	87.0

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

n/a



# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Instructional Technology & Infrastructure Inventory

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

Yes

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

Yes

14a. On an average school day, approximately how many student devices access the district's network?

100

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

Not Applicable

# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Software and IT Support

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### D. Software and IT Support

1. **What are the operating systems 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	No
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."**

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.**

None Used

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

iReady  
 Microsoft Office Suite  
 Accelerated Reader  
 Cloud Based Web 2.0 (i.e. Prezi, Glogster, Spider Scribe)  
 Reading A-Z

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

Britannica Online  
 World History in Context  
 Academic OneFile  
 Kids InfoBits  
 CultureGrams

**8. Does the district have a Parent Portal?**

Yes

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

Attendance (Checked)  
 Homework (Checked)  
 Student Schedules (Checked)  
 Grade Reporting (Checked)  
 Other (Checked)

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

Assessments

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

Emergency Broadcast System (Checked)  
 Website (Checked)  
 Twitter (Checked)  
 Other (Checked)

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

Parent Institute "Tip of the Day"

**10. Please list title and FTE count (as of survey submission date) of all staff whose primary responsibility is technical support.**

Title	Number of Current FTEs
Technology Coordinator	0.40
Network Svcs. Specialist	1.00
Computer Help Desk Aide	1.00
	<b>2.4</b>

**E. Curriculum and Instruction**

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

North Warren will continue to leverage technology and data to personalize learning in ways that increase student learning and achievement. Initiatives in this cycle include:

Migration to Google Apps for Education will promote seamless integration of Technology and increased collaboration

Closing Achievement Gaps: In 2014, the District began using iReady adaptive diagnostic and instruction. Continued use of iReady will be instrumental in providing data driven insights and closing gaps.

Extending course offerings: specialized programming and advanced placement will be made available to our students online through continued access to The Virtual High School and the addition of a Video Distance learning Lab.

Creating a Makerspace will provide opportunities for students, staff, and community to gather, share resources, work on projects, network, and build.

Recognizing that today's learners need to inquire, participate, create, and learn in an information environment, our Library Media Plan (addendum) details the student, classroom, and library dispositions that will prepare students for success in careers, college, and life-long learning.

**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 specify.**

North Warren provides a suite of tools available for all students. Embedded accessibility options in Microsoft Office as well as Google Apps for Education and site licensed Read Out Loud Text to Speech Software support students of all learning styles and abilities—including students with disabilities. In addition, software platforms such as iReady and IXL Math serve to assess and deliver content at appropriate levels to support individualized needs.

**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 North Warren Assistive Technology Team (IT Coordinator and Special Education Teacher) will work with Special Education and Related services to assess needs, evaluate and recommend assistive and adaptive technologies to meet student needs, train service providers, and re-evaluate and adjust services on a continual basis.

**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.**

North Warren School District will continue to provide opportunities for professional development delivered in a variety of formats:

Model Schools Courses

Online Courses and Webinars

Conferences and Workshops

Shared Planning Time

“Just-in-time” Small Group and one-on-one instruction

In-house mentors

Professional Development for Instructional Technology will be in support of Curriculum, designed to improve teaching and learning, and evaluated and planned on a yearly basis. During the 2015-16 school year, North Warren will continue to offer support for using iReady as a research based, data driven instructional tool. Ongoing professional development will be available in the form of just-in-time training, on-demand video instruction, webinars, and onsite workshops. In addition, North Warren has chosen to implement Google Apps for Education. Schools across the globe are finding Google integration a cost effective way to provide seamless integration of technology. North Warren will implement Google Apps for Education in order to:

Provide a unified learning platform for staff, students, and parents;

Deliver a cloud based and device agnostic platform allowing access from any device, anywhere;

Enable users to create, share, and edit files in real-time;

Meet individual needs of students with a wide range of learning styles and abilities;

Boost student motivation and performance;

Support higher levels of communication and collaboration skills required by today’s colleges and careers.

2015-16 Professional Development Plan for Google Apps Integration:

Date	Method of Delivery	Audience:	Professional Development
Jun 2015	Offsite Course through Model Schools	Instructional Technology Leadership	Google Educator Certification Camp to train in-house mentors
Jun2015	Follow-up survey based on Technology Integration Assessment	Staff	Determine current levels of experience in order to best fit professional development
Jul 2015/ Ongoing	Online	Staff	Resources and "on-demand" instructional tools made available
Jul 2015	Onsite Consultant/Mentor	IT Staff	Google Administration Training and Migration to Google Apps Domain
Aug 2015	Model Schools	Early Adopters	Onsite workshops:

Sept 2015	Instructional Technologist and In-House Mentors Model Schools Instructional Technologist and In-House Mentors	Staff	Google Classroom, Teacher and Student Collaboration Staff Development Day- Onsite workshops: Gmail , GAFE Overview Staff Development Day- Onsite workshops: Beginner and Intermediate GAFE Integration; Round table discussions: Area schools at different stages of GAFE integration
Oct 2015	Model Schools Instructional Technologist and In-House Mentors	True North Area Schools	Participation in extended community of GAFE users--troubleshooting, collaborating, and exploring best practice models
Ongoing	Online GAFE User Groups, True North Collaboration, Model Schools	IT Staff, In-House Mentors, Adopters	"Just-in-time" support for classroom integration
Ongoing	IT Staff and In-House Mentors	Teaching Staff	

2. Please list title and FTE count (as of survey submission date) of all staff whose primary responsibility is technology integration training and support for teachers.

Title	Number of Current FTEs
IT Coordinati	0.20
	<b>0.2</b>



# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Technology Investment Plan

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### G. Technology Investment Plan

1. Please list the top five planned technology investments in priority order over the next three years.

	Anticipated Item or Service	Estimated Cost	Is Cost One-time or Annual	Potential Funding Source (May list more than one source per item.)
1	Staffing	175,000	Annual	Local Budget
2	Other	126,000	One Time	Smart Bond
3	Wi-Fi	64,000	One Time	Smart Bond
4	Broadband	24,000	Annual	Local Budget
5	Other	35,000	Annual	Local Budget
<b>Totals:</b>		424000.0		

2. If "Other" was selected in question one, please specify.

Network Switching Infrastructure: 126,000

Distance Learning Lab: 89,000 yr1 supported through outside Grant Funding; 35,000 yr2; 14-35,000 ongoing through Local Budget

**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 Funding (Checked)  
Developments in Technology (Checked)

- 1a. Please specify if response to question one was other.**

(No Response)

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

Upgrades to wireless infrastructure and security will provide school wide broadband to support “Bring Your Own Device” environment for staff, student, and guests;  
Reconfiguration of the Library/Media Center will include area and equipment to support collaboration and “maker” space;  
Extending Library/Media Center hours to include summer and afternoon/evening “open library” will make resources available to students, staff, and community members outside of the school day;  
Migration to Google Apps for Education will provide a platform which is device agnostic and cloud based promoting communication and collaboration among staff, students, and parents;  
A secure gateway to the Virtual Desktop environment (View Security Server) will provide off campus access to networked school resources.

- 3. Please check all locations where Wi-Fi service is available to students within the school district geographical boundaries.**

School (Checked)  
Home (Checked)  
Community (Checked)

- 3a. Please identify categories of available Wi-Fi locations within the community.**

Free Wi-Fi is available in 2 public libraries (Town of Chester and Town of Horicon) and in several area businesses.

**I. Instructional Technology Plan Implementation**

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

# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Instructional Technology Plan Implementation

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Date	Action	Desired Outcome
Summer 2015	Domain Change, Google Administration, Active Directory Integration and Syncing	Google Domain prepared for September Rollout
Summer 2015	Smart Bond Plan Prepared	Funding secured for IT upgrades
Summer 2015	Grant process completed for Distance Learning Classroom	Funding Secured for Distance Learning Classroom
Summer 2015	Evaluate options for and increase Bandwidth	Contract through independent provider of NERIC WAN Distance learning network to provide adequate Bandwidth
Fall 2015	Mail Migration; GAFE Integration	Staff and students mail migrated to Google Domain; Early adopters move to Google Apps for Education
2015-16	Install Distance Learning Classroom and join DL network	Begin using DL for professional development, meeting opportunities, and collaboration with outside resources
2015-16	Switching and Wireless Refresh	Infrastructure upgrades complete
2016-17	Distance Learning Implementation	Extended opportunities available to staff and students through Distance Learning
2016-17	Google Applications for Education Integration	Schoolwide migration to GAFE

# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Instructional Technology Plan Implementation

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2016-18	Response to updated needs assessments	Continued adjustments and training as demanded by performance, and assessment of new data
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**J. Monitoring and Evaluation**

1. Please describe the proposed strategies that the district will use to evaluate, at least twice a year, the effectiveness of the implementation of the district's instructional technology plan to improve teaching and learning.

Date	Action	Desired Outcome
February 2015	Information Technology Assessment prepared	Identify and prioritize IT needs
April 2015	Instructional Technology Integration Report prepared	Define current state of Technology Integration, identify needs, define next steps
2x per year, Fall/Spring, 2015-18	Administer pre and post survey to staff: Data collection according to the North Warren Instructional Technology Integration Report, April 2015	Pre and Post data to measure the current year impact on Curriculum and Instruction will guide course of action for next year Professional Development.
4x per year, 2015-18	Meet with external evaluator: Update Information Technology Assessment, Feb 2015	Regular assessment of progress in addressing identified needs and evaluation of emerging technologies will drive adjustments and/or additions to implementation process.
Winter 2018	Meet with stakeholder groups: Staff, Students, Parents, Community Members: Share data from 3 year implementation, gather feedback, plan next cycle	Data shared with stakeholder groups in several forums including focus groups, Shared Decision Making, and Board of Education public forum will serve to drive the next cycle of Technology Planning.

2. Please fill in all information for the policies listed below.

# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Monitoring and Evaluation

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	Date of Public Forum (If applicable)	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	(No Response)	<a href="http://www.northwarren.k12.ny.us/District/BOEDocs/Policies/10_2_1_StudentAU.pdf">http://www.northwarren.k12.ny.us/District/BOEDocs/Policies/10_2_1_StudentAU.pdf</a>	2012
Internet Safety/Cyberbullying	08/12/2013	<a href="http://www.northwarren.k12.ny.us/District/BOEDocs/Policies/CougarCodeOfConduct731.pdf">http://www.northwarren.k12.ny.us/District/BOEDocs/Policies/CougarCodeOfConduct731.pdf</a>	2013
Parents' Bill of Rights for Data Privacy and Security	(No Response)	<a href="http://www.northwarren.k12.ny.us/Parents/Docs/ParentsBillOfRightsDataPrivacy.pdf">http://www.northwarren.k12.ny.us/Parents/Docs/ParentsBillOfRightsDataPrivacy.pdf</a>	2014

**3. Does the district have written procedures in place regarding cybersecurity?**

Yes



**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

**1a. If response was "No", please explain.**

(No Response)

**2. Was the guidance document helpful?**

Yes

**2a. If "No", please explain.**

(No Response)

**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)

# NORTH WARREN CSD

## Instructional Technology Plan - Annually - 2015

Appendices

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### Appendices

1. Upload additional documentation to support your submission
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