

Instructional Technology Plan - Annually - 2017

LEA Information

Page Last Modified: 10/16/2017

A. LEA Information

1. 2015-2016 Student Enrollment

	Total Enrollment	Pre-K Enrollment	K-2 Enrollment	3-5 Enrollment	6-8 Enrollment	9-12 Enrollment	Ungraded Enrollment
Student Enrollment	1,304	68	301	294	264	368	9

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

Robert D. Magin

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

Assistant Superintendent

Instructional Technology Plan - Annually - 2017Instructional Technology Vision and Goals

Page Last Modified: 10/16/2017

B. Instructional Technology Vision and Goals**1. Please provide the district mission statement.**

The mission of the North Rose - Wolcott Central School District is to create a safe and enriching learning environment that will prepare our students to make positive and meaningful contributions to society.

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

District-wide advancement of technology is imperative to North Rose - Wolcott (NRW) Central School District's students, parents, community, and staff. Technology has become a necessary and effective tool for instruction, staff effectiveness, student achievement, parent involvement, community outreach, and the ability of our graduates to compete in the global marketplace. The NRW Technology Committee completed the original version of the Technology Plan in 2011 to serve as a five-year guide for the district. Each version of the plan focuses on the strategies and work to be accomplished over the next twelve to eighteen months, with some items spanning longer. The plan is designed to be a living document with regular updates that take into account technology changes and/or funding challenges. The plan is also designed to keep pace with rapidly changing technology and provide a framework for planning, implementing, evaluating, and re-planning our technology-related work. The NRW Technology Plan is designed to meet five key objectives:

- 1) Transform learning spaces and create virtual spaces to allow for the effective use of 21st century skills and tools to improve technology proficiency and prepare all NRW students to be successful members of a global learning community.
- 2) Achieve educational and organizational transformation that improves sustainable educational outcomes through strengthened partnerships between schools and central departments that harness the power of individual expertise throughout the organization creating individualized learning opportunities for all.
- 3) Ensure the effective use of technology to facilitate communication with staff, community, and students.
- 4) Ensure existing systems deliver efficient service and useful information to support end-to-end business processes.
- 5) Ensure there is technology equity for students and staff.

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.**DISTRICT LEVEL:**

This plan was originally created through a collaborative process with the district's Technology Team comprised of Instructional staff and administrators. The team held 3 meetings per year, facilitating the outline of the plan.

SCHOOL LEVEL:

Additional school level technology committee meetings were scheduled and facilitated to review specific instructional needs. Coordinator of Technology Integration provided teacher input.

TECHNICAL LEVEL:

Plan was recently updated with a meeting including district administrators, engineers, architects, IT staff, lead technicians at Edutech. The team provided recommendations to support the longevity and health of the network.

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

Instructional Technology Plan - Annually - 2017

Instructional Technology Vision and Goals

Page Last Modified: 10/16/2017

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) Connectivity
- 2) Network
- 3) Cabling

Instructional Technology Plan - Annually - 2017

Instructional Technology & Infrastructure Inventory

Page Last Modified: 10/16/2017

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?

GV/WFL Educational Technology Service (EduTech)

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

	Speed in Gpbs or Mpbs
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 checked="" type="checkbox"/> Greater than 10 Gbps <input type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input 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.

Instructional Technology Plan - Annually - 2017

Instructional Technology & Infrastructure Inventory

Page Last Modified: 10/16/2017

	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 checked="" type="checkbox"/> 10 Gbps <input type="checkbox"/> 1 Gbps - < 10Gbps <input type="checkbox"/> 100 Mbps- < 1 Gbps <input type="checkbox"/> 50 Mbps - < 100 Mbps <input 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	1000	<input checked="" type="checkbox"/> Mbps <input type="checkbox"/> Gbps

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

0

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

- Yes
- No

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

90

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?

Instructional Technology Plan - Annually - 2017

Instructional Technology & Infrastructure Inventory

Page Last Modified: 10/16/2017

	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)	220	220
Laptops/Virtual Machine (VM)	300	300
Chromebooks	600	600
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	35	35
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	176	176
Totals:	1331	1331

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)?**

100

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.**

Access to more STEAM-oriented learning activities and technology geared towards coding. Examples could include NAO robots and Z-Space 3D/VR technology learning monitors.

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

	Number of devices in use
Document Cameras	20
Flat Panel Displays	10
Interactive Projectors	0
Interactive Whiteboards	52
Multi-function Printers	12
Projectors	10
Scanners	5
Other Peripherals	0
Totals:	109

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

N/A

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

Yes

Instructional Technology Plan - Annually - 2017

Instructional Technology & Infrastructure Inventory

Page Last Modified: 10/16/2017

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?

Not Applicable

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 - 2017

Software and IT Support

Page Last Modified: 10/16/2017

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	Yes
Other	No

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

(No Response)

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

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

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

(No Response)

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

Moodle

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

Raz-Kids, STAR Reading/STAR Math, Flocabulary, Teach Scape, MS Office Suite

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

WORLDBOOK: Gran Encyclopedia Hispanica, WORLDBOOK: AD Package w/ EWOL, WORLDBOOK: S&L Edition

Instructional Technology Plan - Annually - 2017

Software and IT Support

Page Last Modified: 10/16/2017

8. Does the district have a Parent Portal?

Yes

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

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

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

(No Response)

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

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

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

Title	Number of Current FTEs
Coordinator of Network and Technology Services	1.00
Senior CSA	0.60
CSA	0.60
Network Tehnician	1.00
	3.20

Instructional Technology Plan - Annually - 2017

Curriculum and Instruction

Page Last Modified: 10/16/2017

E. Curriculum and Instruction

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

- Use of online learning and blended classrooms
- Project-based activities incorporation technology
- Game-based learning and assessment
- Learning with mobile and handheld devices
- Interactive whiteboards and student response systems
- Web-based projects, explorations, and research
- Student-created media such as podcast, video, or multimedia presentations and websites
- Collaborative online tools such as Google Docs and Wikis
- The use of social media tools

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.

Specific hardware and software is used to meet individual needs, including the use of SMART boards or like product.

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.

Specific hardware and software is used to meet individual needs. MS instructional spaces will also be equipped with sound field systems.

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

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).

Specific hardware and software is used to meet individual needs, including the use of SMART boards or like product.

Instructional Technology Plan - Annually - 2017

Professional Development

Page Last Modified: 10/16/2017

F. Professional Development

- Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience, and method of delivery within your summary.**

- Professional development beliefs of the North Rose-Wolcott Central School District:
- Teachers matter. Quality instruction has the largest influence on student achievement.
- It is the obligation of the school community to create safe and caring learning environments and engage students in relevant, reachable, quality work experiences that challenge them to learn more, at higher levels with a deeper understanding (rigor).
- The work of educators is demanding and complex. Educators must have an adaptive style in order to meet the variety of challenges and needs of NRW students.
- Teachers and administrators are not expected to do this work in isolation. Both need the support of collegial learning teams that problem solve and learn together.
- Leaders matter:
- Their clarity, their intentionality, what they believe, think, and communicate make a significant difference in increasing student achievement.
- They are primary architects of embedded professional development through the development of the School Improvement Plan (SIP).
- The most powerful professional development is teacher-to-teacher learning that happens as close to the work with students in classrooms as possible.
- Coaching and well-functioning collaborative teams are powerful tools to accomplish ongoing, meaningful professional learning.
- Workshops, courses, conferences, and other outside resources are additional supports to ongoing professional learning.
- Measuring and assessing professional learning is essential to its design, delivery, and ongoing adjustment, in order to be most responsive to staff and student learning.
- Budgeting at both the District and building level is required to create and sustain ongoing, powerful professional development.

A major initiative in the NRW school district for 2017-18 and beyond is personalized learning, the goal of which is to provide individualized, targeted instruction to student to best meet their needs and increase student achievement results. Part of PL includes integration of digital content. The District will be providing training around use of specific devices such as laptops, Chromebooks, and iPads, as well as the following programs:

- Google Classroom
- Renaissance Learning
- LinkIt!
- Windows10
- SchoolTool
- IXL

Training is provided during Superintendent’s Conference Days, Faculty Meetings, paid experiences outside the school day, and during release time. The district’s instructional technology specialist provides on-site 1:1 assistance to teachers in the classroom, in addition to facilitating trainings.

- 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
Coord Tech Integration	0.50
	0.50

Instructional Technology Plan - Annually - 2017

Technology Investment Plan

Page Last Modified: 10/16/2017

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 - 2017

Technology Investment Plan

Page Last Modified: 10/16/2017

	Anticipated Item or Service	Estimated Cost	Is Cost One-time, Annual or Both?	Funding Sources May choose more than one source
1	Network Cabling	1,052,907	One Time	<input checked="" 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 checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
2.	Other	1,085,553	One Time	<input checked="" 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 checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
3.	Wi-Fi	352,800	One Time	<input checked="" 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 checked="" type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
4.	Chromebooks	180,000	Both	<input checked="" 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 checked="" type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
5.	Instructional Software	300,000	Both	<input checked="" 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 checked="" type="checkbox"/> Instructional Material Aid <input type="checkbox"/> Instructional Resources Aid <input type="checkbox"/> Smart Schools Bond Act <input type="checkbox"/> Other
Totals:	0	2,971,260	0	0

Instructional Technology Plan - Annually - 2017

Technology Investment Plan

Page Last Modified: 10/16/2017

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

Network Hardware

Instructional Technology Plan - Annually - 2017

Status of Technology Initiatives and Community Involvement

Page Last Modified: 10/16/2017

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.**

Through the assignment of tablet or chrome book technology to every student and teacher and shiftin to educational tools which are coud-based, a potential 24/7/365 accessibility environment will be created where learning can occur anytime, anywhere.

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
Restaurants

Instructional Technology Plan - Annually - 2017

Instructional Technology Plan Implementation

Page Last Modified: 10/16/2017

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.**

Ongoing - Switch Upgrades, VM Install, Edge Switches in ES

Instructional Technology Plan - Annually - 2017

Monitoring and Evaluation

Page Last Modified: 10/16/2017

J. Monitoring and Evaluation

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

In order to evaluate whether the goals and objectives of the North Rose - Wolcott CSD Instructional Technology Plan are being met, a semi-annual assessment (January & June) will be conducted by the Technology Committee. The assessment will address four sets of questions:

- 1) Which objectives have been met?
- 2) Have they enabled attainment of the curriculum standards for all students in the areas concerned?
- 3) Which unmet objectives are the highest priority? How can these objectives be obtained?
- 4) In light of the current information, what changes in objectives, priorities, and implementation strategies are required?

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

	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	http://www.nrwcs.org/district.cfm?subpage=1216962	2014
Internet Safety/Cyberbullying*	http://www.nrwcs.org/district.cfm?subpage=1198203	2014
Parents' Bill of Rights for Data Privacy and Security	http://www.nrwcs.org/district.cfm?subpage=1360000	2014

Instructional Technology Plan - Annually - 2017

Survey Feedback

Page Last Modified: 10/16/2017

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 - 2017

Appendices

Page Last Modified: 10/16/2017

Appendices

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

(No Response)