

**A. LEA Information**

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

2,209

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

	Enrollment
Grades K-2	468
Grades 3-5	496
Grades 6-8	557
Grades 9-12	688

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

Ursula Carbone

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

Chief Information Officer

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 Nanuet School District is committed to the personal development of each student so that upon graduation, he or she is prepared and inspired to apply learning in a changing, complex and interdependent world.

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

Students in the Nanuet Union Free School District must be provided with the tools and the experiences to become knowledgeable and productive members of our technologically advanced community and society. Presently, our students face a new and more challenging world: a world in which a limitless wealth of information can be available at one’s fingertips; a world in which communications can be global and instantaneous; a world in which the organization, analysis and presentation of information can be effortless. It is the responsibility of the Nanuet School District to enable its students to have access to and make full use of these opportunities.

The Nanuet Union Free School District must act upon the opportunities offered by technology to transform and enhance our educational system. Teachers in every classroom must have access to technology and be empowered to use the technology to prepare Nanuet’s students for a lifetime of learning and employment in the 21st century. Students in every classroom and area of learning must have access to technological tools inside and outside the classroom to make our vision of technology use a reality. Changes in the learning environment will make possible meaningful change in curriculum, learning and assessment.

In order to accomplish this vision, the Nanuet School District must make a commitment to the following:

Goal	Measurement Tool
Making technology a district-wide priority	Annual Clarity survey – changes over time; meetings and presentations
Developing an infrastructure that supports access to learning opportunities from all areas in the learning environment	Documentation of ongoing upgrades to equipment and services
Providing substantial, ongoing funding for technology	Budget development, IPAs, Grants
Providing ongoing training of and support for teachers in the use of technological tools	Professional Development Opportunities offered and attended; Clarity survey – changes over time
Integrating technology into our daily curriculum	Classroom observations; Annual Clarity survey – changes over time

**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.**

Technology Plan Development			
Date	Purpose	Participants	Outcome
September 2014	Annual Administrative Retreat to review and set District and Board of Education Goals	All Central Office and Building Administrators	Provided participants with update of technology issues and goals for current school year
September 2015 thru June 2015	Analyze data and identify curriculum needs to support student achievement.	Administrative Cabinet, Team Leaders, Curriculum Coordinators and Facilitators, Department Chairs	Provided participants with additional data to support curriculum and assessment revisions; provide participants with staff development to understand data sets to increase student achievement
November 2015 thru December 2015	Administer Clarity Survey. Gather information from staff, students and the community and to assess the District's strengths and weaknesses with regard to each section of the survey.	All District staff, Students K – 12, Parents, Community Members	Collected data to determine which items should be the focus of professional development for the current and future technology plans.
November 2015 thru June 2016	Upgrade District to Managed Fiber to be able to implement Technology Plan	LHRIC, District administrators and staff	Provided district with capability of 10Gb connectivity as per suggestion of SSBA
January 2015	Annual Technology Update to Board of Education and Community	Board of Education, Staff, Community Members	Provided participants with plans for Managed Fiber, SSBA, Clarity survey tool , BYOT initiative
February 2015 and May 2015	Review Clarity Data	LHRIC, Districts in Region, Director of Technology	Reviewed local survey data to determine items to target for growth and development
January 2015 thru June 2015	Review Clarity Data	Administrators	Selected Clarity survey items for professional development focus and development.

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

No Gap Present (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.**

N/A

**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)	1GB	1Gb
Internal Network Bandwidth: Connections BETWEEN school buildings (LAN)	1Gb	10Gb
Bandwidth: Connections WITHIN school buildings (LAN)	100Mb	1Gb

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

16Mb

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

Lower Hudson Regional Information Center

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	Available (Checked)
802.11b	(No Response)
802.11g	Available (Checked)
802.11n	In Use (Checked)
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?**

100Mb - 1Gb

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)	173	173
Laptops/Virtual Machine (VM)	1,911	1,911
Chromebooks	100	100
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	95	95
<b>Totals:</b>	2,279.00	2,279.00

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)?**

8

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.**

It would be helpful to have a bank of contacts who have expertise with the various needs of students, who know the best devices and applications to meet those needs, who are available to setup and support equipment, and who are able to train staff in the best use of the same in the classroom.

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	180
Flat Panel Displays	0
Interactive Projectors	104
Interactive Whiteboards	104
Multi-function Printers	0
Projectors	0
Scanners	0
Other Peripherals	0
<b>Totals:</b>	388.00

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

b

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)?**

No

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

(No Response)

**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?**

Yes

**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	Yes
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."**

(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.**

eChlak

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

AIMSWeb  
 Achieve 3000  
 IXL Learning  
 Dreambox Learning  
 Waterford Learning

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

OPALS online library automation system  
 World Book Online  
 Infobase Issues and Controversies  
 Cengage Student Resources in Context  
 ABC CLIO Databases

**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)  
 Transcripts (Checked)

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

The District did not select other in Question 8.

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

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

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

(No Response)

**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
Director of Technology	0.50
Assist. Dir. of Tech.	0.20
Instrutional Technology Teaching Assistant(s)	1.00
Network Specialist	3.00
	<b>4.70</b>



**E. Curriculum and Instruction**

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

The District is using the data from the Clarity surveys to examine gaps in technology use between and among classrooms, grade levels, and content areas. In addition the district uses data generated from online and traditional assessments to determine curriculum gaps and the academic needs of individual students. The district will use the assessment data as well as the technology survey data to address gaps and needs through professional development opportunities, expansion and extension of learning opportunities past the school day, and online resources carefully selected to focus on academic achievement.

**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.**

The Nanuet Union Free School District's Technology plan has been designed to address the needs of all learners including those with special needs. Infrastructure planning has ensured that network and wireless access is consistent across all learning areas in all school buildings. Meetings to discuss the needs of specific populations of students, or individual students, are held to determine what the best devices, applications, and resources are that best address those needs. Purchases are made to support these needs. On-site technology support personnel assist with the implementation of the technology in classrooms and ongoing support for the student(s) and staff.

**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 Nanuet Union Free School District's Technology plan has been designed to address the needs of all learners including those with special needs. Infrastructure planning has ensured that network and wireless access is consistent across all learning areas in all school buildings. Meetings to discuss the needs of specific populations of students, or individual students, are held to determine what the best devices, applications, and resources are that best address those needs. Purchases are made to support these needs. On-site technology support personnel assist with the implementation of the technology in classrooms and ongoing support for the student(s) and staff.

**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.**

Topics

Use of Google Apps for Education for personalized learning, collaboration, project based learning, data collection and analysis, digital literacy  
 Using data to enhance student achievement – Using the SMART Response System for data collection and analysis; using LHRIC provided State Assessment data and reports to identify curriculum gaps, students’ academic strengths and weaknesses and develop strategies to address the same.  
 Using and creating online assessments to prepare and familiarize students, parents, and staff with processes as well as the technology itself.  
 Using online resources to extend and enhance learning outside the classroom.

Integrating STEM activities into all curriculum areas K – 12.

Audience

Staff, students, parents, community members

Methods of Delivery

Team meetings, Department meetings, Faculty meetings, PTA meetings, BOE presentations, videos posted through District’s YouTube Channel.

- 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
Director of Technology	0.50
Assist. Dir. of Tech.	0.80
Instr. Tech. Facilitator	0.60
Inst Tech Teach Assistant	1.00
	<b>2.90</b>

**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	Broadband	180,000	Annual	District
2	Laptops	360,000	Annual	IPA
3	Other	360,000	Annual	IPA
4	Interactive Whiteboards	225,000	Annual	IPA
5	Desktops	300,000	Annual	IPA
<b>Totals:</b>		1,425,000.00		

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

Other includes Chromebooks.  
 Costs are on an annual basis as the District Technology Plan calls for replacement cycles for outdated equipment.  
 The district is currently involved in an infrastructure upgrade that involves replacing and upgrading switches and servers to move to a virtual server environment and provide access to BYOT for students and community members visiting the schools. These costs are not included in the above because they are already accounted for with 2016 IPA funds.  
 SSBA funds will be utilized to provide and upgrade classroom hardware resources (SMARTBoards, Laptops, Chromebooks) as the infrastructure will have been built out to support greater access and connectivity.

**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.**

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.**

The district is currently involved in an infrastructure upgrade that involves replacing and upgrading switches and servers to move to a virtual server environment and provide access to BYOT for students and community members visiting the schools. The district makes every effort to engage in partnerships with the local library and other community organizations to provide high speed Internet access and homework aid available where available in th community.  
When purchasing software applications, preference is always given to those resources that are web-based in order for students to be able to access material from home. A parent component is also stressed to increase the ability for parental involvement.

- 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.**

Wi-Fi is available in most local businesses, the public library, government entities, Optimum Wireless Access is available throughout the county.

**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.**

2016 School Year

District upgrades infrastructure to increase bandwidth, virtualize servers, replace switches to meet the goal of providing BYOT access for staff, students and community visitors in all; district buildings. Training support will be provided to support this initiative.

Google Apps for Education and the use of Chromebooks will be piloted with high school and middle school classrooms.

Use Clarity tool to re-survey staff, students and the community to determine successes and needs.

2017 School Year

Use of Chromebooks and Google Apps for Education will be expanded into all school buildings.

eChalk Website will be upgraded to provide a LMS for staff, students, and parents.

Flipped classroom initiatives will be a focus for staff development and to continue to provide learning opportunities outside the classroom.

Use Clarity tool to re-survey staff, students and the community to determine successes and needs.

Provide professional development and support for BYOT initiative.

2018 School Year

Continue flipped classroom initiative.

Use Google Apps for Education with a focus on personalizing learning for users.

Use Clarity tool to re-survey staff, students, and community to determine successes and needs.

**J. Monitoring and Evaluation**

- 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.**

Late Fall/Early Winter - The district will again use the Clarity tool to survey staff, students and the community to gather feedback on progress being made toward previous goals set by survey data as well as to determine additional academic achievement goals that should be addressed. Data from the survey will be shared with Central Office and school administrators to determine progress toward meeting previous technology goals and to set goals for the current and upcoming school years.

Year Long – Local and State Assessment data will be used to monitor students’ progress toward achieving academic goals. Technology resources and applications will be used, where appropriate, to address academic needs.

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

	Date of Public Forum (If applicable)	URL	Year Policy Adopted
Acceptable Use Policy -- AUP	(No Response)	<a href="http://www.nanuetd.org/www/nanuetd/site/hosting/StudentAUP2010.pdf">http://www.nanuetd.org/www/nanuetd/site/hosting/StudentAUP2010.pdf</a>	2010
Internet Safety/Cyberbullying	03/26/2015	<a href="http://policy.microscribepub.com/cgi-bin/om_isapi.dll?clientID=1862904917&amp;depth=2&amp;infobase=nanuet.nfo&amp;record={B4E}&amp;softpage=Document42">http://policy.microscribepub.com/cgi-bin/om_isapi.dll?clientID=1862904917&amp;depth=2&amp;infobase=nanuet.nfo&amp;record={B4E}&amp;softpage=Document42</a>	2012
Parents' Bill of Rights for Data Privacy and Security	(No Response)	<a href="http://www.nanuetd.org/www/nanuetd/site/hosting/Par-Comm%20Resource%20Tab/NANUET_PBOR.PDF">http://www.nanuetd.org/www/nanuetd/site/hosting/Par-Comm%20Resource%20Tab/NANUET_PBOR.PDF</a>	2014

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

No

**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?**

N/A

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

N/A

**5. Other comments.**

N/A

**Appendices**

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

(No Response)