Essex North SU
(Canaan Schools)
2012 ~ 2015
Technology Plan

Part 1
Executive

Essex North SU Technology Plan was created through the collaborative efforts of the administrative and teaching staff. This group was able to provide valuable input and perspectives as to the use of technology in their specific areas of teaching as well as the schools as a whole. As with previous tech plans this plan was written with a vision beyond our immediate or short term needs of our school and instead focused on the importance that technology will play in our future. It was created with the purpose of guiding Essex North SU in the many ways that technology can be utilized to support the educational needs of all members of our school and our community. This document was initially created in Google Docs for ease of access and collaboration between all parties it was later converted to MS Word 2010 for layout purposes. These members are as listed:

Christopher Masson - ENSU Superintendent
Debbie Lynch - Principal/Steering Committee member
Thomas A. Mays - Technology Coordinator
Jason Di Giulio - Tech Committee, High School Teacher (English)
Nancy Edwards - Tech Committee, Sixth Grade Teacher
Stephanie Lyons - High School Teacher (Business/Computer Apps)
Kenn Stransky - Adult Education (NEKLS)

The Essex North SU Technology Mission Statement
In order to prepare our students to become responsible and productive citizens of the 21st century, Canaan Schools will provide students with the knowledge and skills needed to access and utilize the information necessary to thrive in today's technology/information based society.
Canaan School's mission is to incorporate technology into the educational environment that will promote and encourage problem solving, exploration, the ethical use of technology and learning in the classroom and beyond.

We strive to:
- Promote student-centered learning.
- Provide access to appropriate technology and support for all students and staff.
- Encourage communication.
- Develop the skills that encourage the habits needed to become lifelong learners.
- Encourage the ethical use of technology and respect for intellectual properties.
- Improve the faculty and staff ability to more fully incorporate technology into the curriculum by providing training and support in the appropriate use of modern technological tools. Canaan's students are connected to the global community via Internet technology in a safe and responsible learning environment where technology is integrated into the learning and working process. In order to accomplish our vision for increased student learning with the use of technologies, our plan includes the following areas:

Development of Lifelong Learners
- Assures skillful use of technology to support the development of lifelong learning skills and process skills such as: flexibility, adaptability, critical thinking, problem solving, and collaboration. We believe these skills are essential for success in our rapidly changing information age.

Equity of access for the learning community
- Provides high standards of hardware, software and support for all students and staff.
- Assures that all students and staff will be provided with and have equal access to hardware and software.
- Implement grade level technology goals identified to insure equity of delivery to all students.
- Provides the learning community with greater opportunity for interaction, collaboration and information exchange.

Integration of Technology in the Classroom
- Expands classroom tools for teaching and learning.
- Provides for the integration of multiple resources for existing and emerging curriculum.
- Enables the learning community to communicate more effectively, access and process information and work productively.
- Link the classroom with educational resources within the building, community and worldwide.

- Create a collaborative environment for project-oriented activities.
- Increases the productivity of students as they work toward attaining learning outcomes.
- Encourages the use of multimedia tools, enabling students to become active and experiential learners.

Build a Culture of Continuous Learning for Staff
- Provides introduction to networked systems.
- Develops school-based technology planning and learning.
- Builds online educational resources.
- Incorporates learning new curriculum with technology applications.
- Support for instructional change.
- Facilitates access to collegial support and best practice information from a wide variety of resources.
- Expands the variety of teaching tools and strategies to support diverse learning styles.
- Supports productive and efficient management of student assessment.
- Increases support for emerging instructional strategies: interdisciplinary, collaborative, and active learning options.

Note: Elements of this Technology Mission Statement come from the Kansas Technology Plans Template as provided by the Vermont State Dept. of Education.

Part 2
Goals
Data Collection
Essex North SU currently practices data collection by utilizing several of the prescribed mechanisms. As a means of streamlining the explanation of data collection one or more of the following mechanisms will be listed in the Data Collection column of the Goals rubric. Further details will be provided when necessary.

Observations: Observations of teachers working in the course of their daily classes has been ongoing for many years.

Analysis: Analysis of work produced by students and teachers is one of the most common practices of collecting data that shows a true understanding of the effectiveness achieved through lesson plans and their goals.

Interviews: Interviews with teachers, students and staff provide valuable insights in how well that individual can articulate their understanding of technology, including the use and integration of that technology into the curriculum or assignments.

Surveys: Further surveys and assessments will be performed to ascertain individual understanding of technology and to isolate areas of weakness that may require additional training and professional development.

Goal 1: Student-Centered Learning
What is your SU's intent for how students, teachers, and administrators will use technology to support the development of personalized learning in all students?
Local Goal: <u>Our SU will:</u> Canaan Schools will continue to support a learning environment where students have access to the available technological resources needed to engage in learning tasks that are not only meaningful and relevant but are unique to their individual style. This will engage student interest and creativity as well as promote independent and collaborative learning.

Action Step	Description	Staffing	Infrastructure	PD	Y1/Y2/Y3	Data Collection/Eval.
1- Essex North SU will use technology to promote, support, and manage student-centered learning.	Building upon the Digital Wish grant Canaan will continue to provide 1 to 1 laptops to students starting in the 4th grade.	Teachers will be trained in a mentorship based program where they will acquire the skills needed to successfully integrate the use of technology into the grade level curriculum.	A wide area wireless network is already in place for staff and students to access the internet and networked printers from anywhere on the Canaan Schools campus.	Essex North SU will continue to seek out and utilize ways to provide the appropriate professional development for teachers in an effort to more successfully integrate the use of technology into the grade level curriculum.	Y1/Y2/Y3 On going.	Students will have the laptops that were assigned to them at the beginning of the school year.
2- Essex North SU will promote teaching methods and strategies that best support the use of technology in student-centered learning	We will continue to utilize desktop and web based applications and services that will help develop activities that focus on student-centered learning		Same as above.	Technology integration specialist / trainers such as Paula Churchill will provide training to students and staff on the safe and proper use of technology in education.	Y1/Y2/Y3 On going.	Teachers will assign tasks that are specific to promoting independent and collaborative study and monitoring the results.
3- Essex North SU will continue to keep students safe online while still utilizing a variety of online tools including social networking media.	The school's network is monitored and filtered with an iPrism Internet filter. This appliance provides real time filtering and reporting of all internet activity.	Classes are conducted to provide staff and students with the tools needed to become responsible Digital Citizens.	Same as above.	Technology integration specialist / trainers such as Paula Churchill will provide training to students and staff on the safe and proper use of technology in education.	Y1/Y2/Y3 On going.	iPrism Internet filter appliance provides reporting of all student and staff internet activity.
4- Essex North SU will continue to provide collaborative online tools be used to support student-centered learning	Google Documents provides word processing, spreadsheets and presentation tools that help students to research, synthase and organize the materials needed for creating and compiling meaningful content.		Same as above.		Y1/Y2/Y3 On going.	Teachers will assign tasks that are specific to the utilization of Google Documents to promoting independent and collaborative study and monitoring the results.

Indicators of Success for this Goal: Step one: students are using the laptops that have been provided. Step two: teachers will grade students on assigned tasks that are specific to promoting independent and collaborative study. Step three: reports of all student internet activity will provided iPrism appliance. Step five: Teachers will assign tasks that are specific to the utilization of Google Documents to promoting independent and collaborative study and monitoring the results. Together the data collected from these action steps should provide an accurate mean of evaluation and indications and success.

Goal 2: *Leadership in a Student-Centered Learning Environment*

Local Goal: <u>Our SU will</u>: 1- The Canaan SU will continue to create and implement professional development programs rich in content-based technology integration into the curriculum. 2- The Canaan SU leaders will model technology use for both staff and students, in a variety of contexts. 3- The Canaan SU leadership will administer the transition of the traditional role of the teacher to that of teacher / facilitator in a classroom setting where technology can provide access to appropriate grade level teaching and learning resources. 4- Canaan Schools will introduce web literacy in the curriculum.

Action Step	Description	Staffing	Infrastructure	PD	Y1/Y2/Y3	Data Collection/Eval.
1- Essex North SU will continue to create and implement professional development programs that focus on content-based technology integration into the curriculum.	Canaan will continue to seek out and utilize ways to provide the appropriate professional development for teachers in an effort to more successfully integrate the use of technology into the grade level curriculum.	Teachers will be trained in a mentorship based program where they will acquire the skills needed to successfully integrate the use of technology into the grade level curriculum.	A wide area wireless network is already in place for staff and students to access the internet and networked printers from anywhere on the Canaan Schools campus.	Please see description.	Y1/Y2/Y3 On going.	Teachers will receive training, and be able to successfully integrate the use of technology into the grade level curriculum.
2- Essex North SU leaders will model technology use for both staff and students, in a variety of contexts.	The Essex North SU leadership will support the creation and development of a broad range of technology initiatives that align not only with STEM but will encompass all areas of grade level curriculum.	Same as above.	Same as above.	Please see staffing.	Y1/Y2/Y3 On going.	Lesson plans and assignments will reflect the adoption and utilization of technology initiatives.
3- Essex North SU leadership will administer the transition from the traditional teaching paradigm to that of teacher / facilitator in a classroom setting where technology can provide access to appropriate grade level teaching and learning resources.	The Essex North SU leadership will work closely with staff and community members in the form of the Technology and Steering Committees to find ways to help transition the traditional role of the teacher to that of facilitator with the use of such tools as Collaborize Classroom as well as other grade level specific teaching and learning resources.	Same as above.	Same as above.	Please see staffing.	Y1/Y2/Y3 On going.	Lesson plans and assignments will reflect the adoption and utilization of technology initiatives.
4- Essex North SU will introduce web literacy as part of the curriculum.	Teachers will facilitate the ABCs of Web Literacy: Interactive Tutorial into the curriculum. ABCs of Web Literacy criteria (Authority, Accuracy, Bias, Currency and Coverage) help students to more accurately evaluate information when turning to the Internet for research.	Same as above.	Same as above.	Please see staffing.	Y1/Y2/Y3 On going.	Lesson plans and assignments will reflect the adoption, administration and completion of this tutorial in all appropriate grade levels.

Indicators of Success for this Goal: Student performance on assignments that are identified in individual lesson plans.

Goal 3: *Flexible Learning Environments*

Local Goal: <u>Our SU will</u>: Take steps to broaden the school's network with a focus on the wireless connectivity to provide a more flexible learning environment.

Action Step	Description	Staffing	Infrastructure	PD	Y1/Y2/Y3	Data Collection/Eval.
1- Essex North SU will use technology to promote, support, and manage student-centered learning.	Building upon the Digital Wish grant Canaan will continue to provide 1 to 1 laptops to students starting in the 4th grade.	Teachers will be trained in a mentorship based program where they will acquire the skills needed to successfully integrate the use of technology into the grade level curriculum.	A wide area wireless network is already in place for staff and students to access the internet and networked printers from anywhere on the Canaan Schools campus.	Canaan will continue to seek out and utilize ways to provide the appropriate professional development for teachers in an effort to more successfully integrate the use of technology into the grade level curriculum.	Y1/Y2/Y3 On going.	Students will have the laptops that were assigned to them at the beginning of the school year.
2- Essex North SU will continue provide learning opportunities that students can access via technology beyond their school day.	We will continue to provide web based resources such as Study Island, Math Land and Virtual High School (VHS) to our students beyond the traditional school day.	Teacher will take on the role of facilitator in such a classroom setting to assist students and help keep them on task.	Same as above.	N/A	Y1/Y2/Y3 On going.	Reports are generated by web based instructional sites such as Study Island and Virtual High School. This data that in conjunction with the regular grades will provide a measure of the overall effectiveness
3- Essex North SU will continue to keep students safe online while still utilizing a variety of online tools including social networking media.	The school's network is monitored and filtered with an iPrism Internet filter. This appliance provides real time filtering and reporting of all internet activity. The SU will continue to bring in speakers about digital citizenship.	The SU will continue to bring in speakers about digital citizenship (for example, Technicool).	Same as above.	Technology integration specialist / trainers such as Paula Churchill will provide training to students and staff on the safe and proper use of technology in education.	Y1/Y2/Y3 On going.	iPrism Internet filter appliance provides reporting of all student and staff internet activity. Students and staff will attend lectures on Internet safety and on being responsible digital citizens.
4- Essex North SU will continue to provide collaborative online tools be used to support student-centered learning	Google Documents provides word processing, spreadsheets and presentation tools that help students to research, synthase and organize the materials needed for creating and compiling meaningful content.	Teacher will take on the role of facilitator in such a classroom setting to assist students and help keep them on task.	Same as above.	Technology integration specialist / trainers such as Paula Churchill will provide training to students and staff on the safe and proper use of technology in education.	Y1/Y2/Y3 On going.	Teachers will assign tasks that are specific to the utilization of Google Documents to promoting independent and collaborative study and monitoring the results.

Indicators of Success for this Goal: Students will use the laptops that were assigned to them and the Internet filter reporting of their activity to ensure proper use and to maintain a safe environment. Reports generated by web based instructional sites such as Study Island and Virtual High School will provide usable data that in conjunction with the regular grades will provide a measure of the overall effectiveness and success of these sites.

Goal 4: *Engaged Community Partners*

Local Goal: <u>Our SU will</u>: Will explore educational opportunities and partnerships within our community and beyond by utilizing online and distant learning resources. While the administration recognizes that social media has become a more common and valued part of the educational experience the SU will seek to find a balance of how to fully utilize social media without forfeiting productivity, security and online safety of our students.

Action Step	Description	Staffing	Infrastructure	PD	Y1/Y2/Y3	Data Collection/Eval.
1- The administration, guidance and teaching staff will work with students to explore online resources.	The administration and teaching staff are continually looking for online resources such as Mathland, Study Island, Virtual High School (VHS) and Coursera to list just a few.	Teachers will be trained in a mentorship based program where they will acquire the skills needed to successfully integrate the use of technology into the grade level curriculum.	A wide area wireless network is already in place for staff and students to access the internet and networked printers.	Please see staffing.	Y1/Y2/Y3 On going.	Lesson plans and assignments will reflect the adoption and utilization of technology initiatives.
2- Essex North SU and teaching staff will look into distance learning opportunities that utilize the Learning Network of Vermont (LNV)	The administration will promote distance learning opportunities through the <u>Center for Interactive Learning and Collaboration (CILC)</u>. A link to this website has been made available in the teacher's section of the school's website.	Same as above.	Same as above.	Please see staffing.	Y1/Y2/Y3 On going.	Teachers use the resources made available through the <u>Center for Interactive Learning and Collaboration (CILC)</u>.
3- Essex North SU will continue to foster collaborative communication with local communities, through the development, and maintenance of the school's website, blogs, social media, and other collaborative tools for local communication.	Essex North SU has created a website that allows for students and parents to access homework assignments as well as students grades and attendance. A school blog is used for administration to communicate with and gather feedback from teachers. Essex North SU is looking at different forms of social media as a means to broaden our ability to communicate with the community both locally and beyond.	Same as above.	Same as above.	Teachers will be trained in a mentorship based program where they will acquire the skills needed to successfully utilize the technology communications resources that have been made available.	Y1/Y2/Y3 On going.	Staff, students and parents utilize the web based resources for tracking student progress. Teachers utilize the school's blog. Teachers utilize email for communication with students, parents and fellow staff members.

Indicators of Success for this Goal: Staff, students and parents utilize the web based resources for tracking student progress. Teachers utilize the school's blog. Teachers utilize email for communication with students, parents and fellow staff members.

Goal 5: *Effective Local Technology Plan Evaluation*

Local Goal: <u>Our SU will</u>: 1. the technology will be employed both as a tool for student assessment and as a mechanism for distributing data that is used for educational decision-making.

2. That local districts will formatively monitor the degree to which local technology plans are implemented. *Regular updates to the technology plan should be uploaded to the web, VTDOE site and local web page to highlight changes made on an annual basis.*

Action Step 1- The Essex North SU, staff and community recognize that technology and its adoption and integration into the curriculum is constantly changing. The administration and the Technology Committee will regularly review and assess the utilization of technology in the classroom along with assessments of trends in emerging technologies. These reviews and assessments will provide a means measuring the effectiveness of any of the Technology Plan and what changes if any will need to be implemented to provide the best overall results.

Action Step 2- The Essex North SU and the Technology Committee will continue to bring all of its findings to the School Board as well as post the Technology Plan with all of its revisions.   Any and all updates to the local technology plan will be uploaded to the school's website as well as VTDOE site.

Signature/Certification Page

General Information: The signature (below) certifies that this supervisory union or district meets all requirements for Information and Communication Technologies planning as defined by the State of Vermont under the federal "No Child Left Behind" legislation.

Name of supervisory union covered by this Technology Plan: _Essex North Supervisory Union_

Names of schools/buildings covered by this Technology Plan (include all actual buildings)
  Canaan Memorial High School   _Canaan Elementary School_
  Canaan Learning Center   _Supervisory Union Office_
  _____ _____
  _____ _____
  _____ _____

Technology Contact Person: _Thomas A. Mays_   Phone: _802 266 8910 Ex 20_
Title: _Technology Coordinator_   E-mail address: __tamays@canaanschools.org_

☐   Check here if you do **NOT** wish to be added to the Department of Education's "Ed Tech" listserv. This listserv is one of the primary means of communication between the DOE and schools.

Contributors to this Educational Technology Plan and their affiliations. We recommend involvement by a breadth of stakeholders — including school administrator, community member, parent, teacher, student, paraprofessional, and other interested parties. An additional
section or page can be added.

Christopher Masson (Superintendent)   Debbie Lynch (Principal) ___ _____
Jason Di Giulio (Teacher)_____   Nancy Edwards (Teacher) _____
Stephanie Lyons (Teacher)_____   Kenn Stransky (Adult Education - NEKLS)

Certifications: Select one

This Educational Technology Plan was approved by our School Board on: _____
This Educational Technology Plan will be approved by our School Board on: _____

Children's Internet Protection Act (CIPA) certification:

Requirements of CIPA (from USAC web page) CIPA requirements include the following three items: *Technology Protection Measure* A technology protection measure is a specific technology that blocks or filters Internet access. It must protect against access by adults and minors to visual depictions that are obscene, child pornography, or — with respect to use of computers with Internet access by minors — harmful to minors. It may be disabled for adults engaged in bona fide research or other lawful purposes.

Internet Safety Policy The Internet safety policy must address all of the following issues:

• Access by minors to inappropriate matter on the Internet and World Wide Web

• The safety and security of minors when using electronic mail, chat rooms, and other forms of direct electronic communications

• Unauthorized access including "hacking" and other unlawful activities by minors online

• Unauthorized disclosure, use, and dissemination of personal information regarding minors

• Measures designed to restrict minors' access to materials harmful to minors

For schools, the policy must also include monitoring the online activities of minors. (Note: Beginning July 1, 2012, when schools certify their compliance with CIPA, they will also be certifying that their Internet safety policies have been updated to provide for educating minors about appropriate online behavior, including interacting with other individuals on social networking websites and in chat rooms and cyberbullying awareness and response.)

Public Notice and Hearing or Meeting The authority with responsibility for administration of the school or library must provide reasonable public notice and hold at least one public hearing or meeting to address a proposed technology protection measure and Internet safety policy. Unless required by local or state rules, an additional public notice and a hearing or meeting is not necessary for amendments to Internet safety policies.

Please check appropriate box below and provide a date where indicated:

 The Supervisory Union or District certifies that CIPA compliance is adhered to including changes on Internet Safety policies required by USAC in 2012.

 CIPA requirements do not apply because none of the technology available to students accesses the Internet

_____
Date of latest Internet Safety policy public meeting or hearing

Signature: _____ Date: _____

   (Superintendent/CEO)

Snail mail (USPS) this signature page document only to: Peter Drescher, Vermont Department of Education, 120 State Street, Montpelier, VT 05620-2501

June 18, 2012

Thomas A. Mays
Technology Coordinator
P O Box 100, 318 Christian Hill Road
Canaan, Vermont 05903

Dear Mr. Mays,

This letter serves as your official approval for the 2012-2015 Technology Plan you submitted on June 4, 2012. Your plan was reviewed for both Universal Service Administration Company (USAC) and Vermont State Technology Plan requirements and was approved based on your successful inclusion of all the necessary elements. It is clear from the plan, submitted via the Supervisory Union level that the following schools are represented by the plan:

 Canaan Schools

Approved technology plans are required of all schools putting forth application materials for the E-rate program under the Schools and Libraries Division of USAC. You should print and retain a hard copy of this document for your records. Your plan will be approved for the time period: July 1, 2012-June 30, 2015.
A record of this approval has been recorded at the following web link, and can be referred to by USAC staff for up to date approved plans throughout the state of Vermont.

Should you need further documentation on this matter, contact information is below.

Peter Drescher, Education Technology Coordinator
Certified Technology Plan Approver for Vermont
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