



**IMPROVING STUDENT ACHIEVEMENT THROUGH
TECHNOLOGY INTEGRATION**

**SCHOOL DISTRICT OF NEW LONDON
INFORMATION LIBRARY MEDIA
and TECHNOLOGY PLAN
July 2010 – June 2013**

Approved by the School District of New London Board of Education _____

Bill Fitzpatrick, District Administrator _____

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EXECUTIVE SUMMARY

The School District of New London Information Library Media and Technology Plan has been developed in fulfillment of the Wisconsin State Statutes requirements, federal requirements of the No Child Left Behind Act of 2001, and Universal Service Program/E-rate. In addition to meeting the requirements necessary to comply with the federal and state requirements in order to access certain funds, the development of the plan has also given the district the opportunity to examine its current status and needs. Through relevant research and best practices, we were able to develop a plan that will work towards enhancing student and educator technology proficiency, student academic achievement, and access to resources with qualified leadership.

The 2010-2013 Information Library Media and Technology Plan follows the District's 2007-2010 plan and was developed by the District Technology Committee, which consists of School Board members, District and building administrators, Library Media Technology Specialists, classroom teachers, community members, and parents.

The plan centers around the District vision and mission statements, which is to have "Success for All Students" through student, family, staff, and community involvement. Our 2010-2013 Information Library Media and Technology Plan has made a concerted effort to incorporate the Student Success Indicators adopted by the district. We believe that these indicators, supported by strong foundational skills, will provide all students with the tools necessary for their success after they leave our school system.

There are four major goals in this plan that were derived from the Technology Committee review of the previous plan, results of the needs assessment survey process, results from the current library status, findings from the educator technology proficiency plan, and introspection regarding District strategic statements. The four major goals are as follows:

1. Develop high quality, practical, and leveled professional development based upon the use and application of technology in order to improve student achievement.
2. Teachers and students will use current and emerging technologies, along with information literacy skills and resources, to demonstrate competence in the four Student Success Indicator areas: effective communicators; problem solvers and critical thinkers; self-directed and lifelong learners; and responsible, contributing citizens.
3. Ensure learning environments continue to evolve in response to 21st century learner demands.
4. Seek ways to use emerging technologies to provide new options for learning while controlling costs.

INTRODUCTION

Technology continues to change how we educate students, communicate to parents and other stakeholders, and manage our schools. While it will continue to be an integral part of education, we must remain focused on how it can best improve student achievement. School districts face increasing pressure and challenges in order to adequately prepare students to live, learn, and work in a digital age. The School District of New London (SDNL) is committed to finding ways to leverage technology in order to accomplish this challenge.

The SDNL's previous Technology Plan was prepared by key district personnel and was developed during the 2006-2007 school year. Work on the current plan began in the fall of 2009 with the most significant revisions being accomplished during the first semester of the 2009-2010 school year. This document will outline the ways in which technology can assist the District in meeting its objectives, strategies, and defined needs. This plan covers a three-year time frame for the years 2010-2013 and will build on federal, state, and local reforms and strategic plans.

Relevant Research and Best Practices

As part of the initial planning process, as well as during the formulation of the Information Library Media and Technology Plan, members of the Technology Committee reviewed relevant research and best practices. The CEO Forum's "The Power of Digital Learning" (2000) suggests four stages in the cycle of technology integration: planning, investigation, and experimentation; initial capital investments; readjustment; and the emergence of new work and organizational models. SDNL has community support in the form of a recurring technology referendum, passed in 2008, that has helped us get necessary technology into our classrooms. We believe that we are in the "readjustment" stage of technology integration as defined by CEO Forum. Our staff members are becoming comfortable with technology and are beginning to expand the scope of activities they utilize it with. We are now working towards redefining our curriculum, teaching methods, and best practices to be in line with current and emerging technology use.

The National Education Technology Plan (2010) states that "the challenge for our education system is to leverage the learning sciences and modern technology to create engaging, relevant, and personalized learning experiences for all learners that mirror students' daily lives and the reality of their futures. In contrast to traditional classroom instruction, this requires that we put students at the center and empower them to take control of their own learning by providing flexibility on several dimensions." As our survey proves, our students at SDNL are very connected. Many of them walk around with the Internet in their pocket, through the availability of handheld devices. We are looking for ways to harness that potential and bring relevant, 21st century projects to our classrooms.

In addition to technology and its availability, a strong Library Media program is necessary to develop and support the ability and learning of both students and staff members. The "Student Learning Through Wisconsin School Library Media Centers" report (2006) indicated that students have higher test scores when they have libraries staffed with trained Library Media Specialists, libraries that are open longer hours, and libraries where the classroom teacher collaborates with the Library Media Specialist to develop integrated lessons using technology. A strong Library Media program is vital to the health of a school district. SDNL is working to ensure students have adequate access to both print and online resources, as well as trained personnel that can help them with all of their information literacy needs.

SDNL has made numerous advances in the use of educational technology and new information resources to improve student achievement, but we can continue to improve and move forward on this

continuum if we monitor and utilize current research and best practices. Using high-quality research, our staff continues to adopt new and effective uses of technology that improve the teaching and learning process. See Appendix A for a complete bibliography of sources referenced in this document.

District Information Library Media and Technology Vision

Technology will be effectively utilized and embraced by all members of the learning community as a primary tool to enhance opportunities for student success.

District Information Library Media and Technology Mission

To fulfill the Educational Technology Vision, the Educational Technology Mission guides the School District of New London...

In order to increase student opportunities for success, it is the goal of the SDNL to achieve effective technology integration by striving to provide appropriate and equitable access, resources, opportunities for learning, communication tools, and a well-articulated and communicated plan based on quality data collection and analysis.

SCHOOL DISTRICT OF NEW LONDON

OUR MISSION - SUCCESS FOR ALL STUDENTS.

Achieving the mission of the School District of New London is a responsibility shared by students, families, employees of the district, and the community. We will be accountable and work together to . . .

- Provide a safe, secure, nurturing environment.
- Establish and maintain school, family, community partnerships.
- Foster students' developmental assets.
- Ensure that students master the essential curriculum.
- Recruit, develop, and retain a highly qualified staff.
- Model what is expected.
- Value diversity.
- Meet the needs of the future.

Student Success Indicators

Graduates of New London Schools will be...

Effective Communicators:

- People who can and do read
- People who can write effectively to a variety of audiences and in a variety of contexts
- People who can express ideas orally
- People who can listen actively and respectfully
- People who can decipher and assess information
- People who can express ideas mathematically
- People who recognize and demonstrate personal creativity
- People who perceive and appreciate creativity in self and in others
- People that have functional literacy in at least two languages

Problem Solvers and Critical Thinkers:

- People who can identify, assess, integrate and use available resources and information to reason
- People who can make sound decisions
- People who can solve problems in a variety of contexts
- People who can use advanced technologies to create physical, intellectual or practical solutions
- People who are capable of divergent and independent thinking

Self-Directed and Life-Long Learners:

- People who can set priorities and achievable goals
- People who can create positive options for themselves
- People who can monitor and evaluate their progress
- People who can assume personal responsibility
- People who display the skills and confidence to succeed
- People who are capable of taking action to achieve physical, mental and social well-being and personal satisfaction
- People who use core values to create positive visions of their future
- People who strive to reach their own maximum academic potential
- People who take pride in their accomplishments
- People who are prepared for employment or further studies and advanced degrees
- People who value education

Responsible Contributing Citizens:

- People who can share time, energies and talents to improve the quality of life for self and others
- People who respect themselves and others
- People who are informed participants in the democratic process
- People who are aware of local, national, and international issues and cultures
- People who respect and value differences in others
- People who can interact in a responsible manner and understand how those interactions impact others
- People of strong character who act on those convictions
- People who are able to work cooperatively with others
- People who are good stewards of the environment
- People who take pride in their school and community

BACKGROUND INFORMATION

School and Community Demographics

During the 2009-2010 school year, the School District of New London was ranked 92nd of 444 districts by enrollment. This includes approximately 2400 students from the City of New London and municipalities of Dale, Deer Creek, Greenville, Hortonia, Liberty, and Maple Creek in Outagamie County; Bear Creek, Caledonia, Fremont, Lebanon, and Mukwa in Waupaca County; and Clayton, Winchester, and Wolf River in Winnebago County. New London is located on the eastern boundary of Waupaca County and the western boundary of Outagamie County. New London is 45 miles from Green Bay, 20 miles from Appleton and 35 miles from Oshkosh. The district covers 144 square miles in three counties with an approximate population of 18,000.

The district is governed by a Board of Education composed of seven members elected at-large for three-year terms. School Board Members are:

Terry Wegner - *President*

Kim Schroeder - *Vice President*

James Auer - *Board Clerk*

Jody Coppersmith - *Board Treasurer*

Keith Steckbauer- *Director*

Jeremy Gorges - *Director*

Connie Neely - *Director*

Buildings in the district include a high school, which opened in August, 1999, housing grades 9-12 with an enrollment of 846 students, a remodeled middle school (the former high school which has been remodeled into to a 6-8 middle school) with an enrollment of 556 students, and four elementary schools with a total enrollment of 982 students. Two elementary schools are located in the City of New London: Parkview Elementary serving grades K-5 with 312 students and Lincoln Elementary serving grades PreK-5 with 329 students. Sugar Bush Elementary, located north of the city, serves grades K-5 with 165 students. Readfield Elementary, located south of the city, serves grades K-5 with 176 students.

Collaborative Initiatives Utilized or Explored

Public Libraries

The New London Public Library houses eight computers that are fully connected to the SDNL computer network, thus providing access to our resources for students and community members. These computers were purchased with a \$50,000 grant, and the district has maintained an ongoing commitment to keeping these computers updated and fully connected to its' network. These computers were most recently updated in the summer of 2009, with brand new computers. Students and staff use Infosoup, the Northeast Wisconsin Public Library catalog. The New London Public Library/Museum Board includes a representative of the SDNL.

Colleges/Universities

Numerous institutions of higher learning exist within a 50-mile radius of the School District of New London. Fox Valley Technical College, University of Wisconsin-Fox Valley Center, the University of Wisconsin-Oshkosh, and Lawrence University serve learners of all ages. Numerous connections have already been made with these institutions, and more exploration of possible collaboration will continue to be examined. SDNL accepts student teachers from many colleges/universities and cooperating teachers include library resources and technology in lesson plans for student teachers.

Businesses/Other Collaborative Efforts

New London is a relatively small town with somewhat limited business collaboration possibilities, but our proximity to the Fox Valley and its wealth and variety of businesses does allow some connections to be utilized and explored. Currently, numerous school-to-work partnerships are in place through the district's co-op and work experience programs, and these partnerships can serve as a springboard for collaboration and assistance in meeting plan goals. The SDNL also works with community organizations such as the Chamber of Commerce, Jaycees, Rotary, and Optimists. Our high school library is open after school four nights a week in order to offer after-hours access to students as well as community members. In addition, we work collaboratively with WISCNET, Skyward, and CESA 6.

Members of the SDNL Technology Committee:

Terry Wegner – School Board Member, Business Community
Jeremy Gorges – School Board Member
Bill Fitzpatrick – District Administrator
Kathleen Gwidt – Director of Teaching and Learning
Richard Yerkey – Director of Business Services
Kristin Grable – Sugar Bush and Readfield Elementary Principal, Summer School Coordinator
Wade Berglund – Systems Engineer
Michele Green – Elementary Library Media Technology Specialist/Technology Coordinator
Donna Young – Middle School Library Media Technology Specialist
Patricia Peters – High School Library Media Technology Specialist
Cherilyn Trzebiatowski – Special Education, Assistive Technology
Jim Shea - Teacher – Readfield Elementary School
Amy Maass – Teacher – Lincoln Elementary School
Melissa Sannes – Teacher – Sugar Bush Elementary School
Tara Shea - Teacher – Parkview Elementary School
Erika Wilson – Teacher – Middle School
Todd Koeller – Teacher – High School, Parent
Linda Gregory – Teacher – High School

While not a formal member of the Technology Committee, consultations are ongoing with Ann Christopherson, Director of Pupil Services, regarding the use of assistive technology in our school district. In addition, informal student surveys have been used to gather input from this stakeholder group. Our Board of Education has a student representative that attends each meeting and has a seat on the board, participating in all aspects with the exception of personnel issues.

Overview of the Educational Technology Planning Process

The District Technology Committee began work on the new Technology Plan in the fall of 2009. A thorough and formal review of the previous plan was completed by a subcommittee dedicated to reviewing and writing the new Technology Plan. Research was analyzed and discussions revolved around topics such as the continued shift in goals from simple technology acquisition to authentic curriculum integration and increasing student achievement. With the passing of a recurring technology referendum in 2008, we have the funds to support our endeavors and are ready to begin taking technology from being a teaching tool to being a way to transform teaching and learning.

The process continued with periodic meetings and continued discussions and revisions. The Needs Assessment Survey was given in February and March of 2010 via SurveyMonkey. Once the data was compiled, additional priorities and goals were formulated. During this time, an inventory/assessment of existing software, hardware, and staffing was completed. With this data at hand, the subcommittee and the full District Technology Committee continued work on the new plan. While formulating the plan,

periodic consultations were made with CESA 6 technology staff and Wisconsin Department of Public Instruction staff.

CURRENT STATUS & NEEDS ASSESSMENT

Analysis of Previous Plan Goals

During the fall of 2009 as part of the initial planning meetings, a subcommittee of the Technology Committee looked at the goals and objectives from the previous Technology Plan. The following is a review of each area with a narrative regarding the status of the goals:

Teaching and Learning Goals

Goal 1.1: *Students will utilize technology as a tool to enhance thinking, learning, and communication skills across the curriculum.*

Goal 1.2: *The district will annually conduct a comprehensive review of technology-related course offerings in grades 6 through 12 to assess the relationship of course descriptions to desired standards. Recommendations will be made to the Director of Curriculum and Instruction for additions, deletions, or changes.*

Goal 1.3: *All students in Grade 4 will complete a formal keyboarding program and sequence.*

Goal 1.4: *The district will establish a process for identifying, reviewing, and sharing “best practices” related to technology integration.*

During the past three years, we have grown tremendously in the area of technology, both in student and staff use. Students begin using technology in Kindergarten through use of the computer lab, SMARTboards in each elementary building, and teacher access to LCD projectors. Students go through a formal keyboarding program in third grade and continue to build on their skills thereafter. Middle and high school students are seeing more technology as teachers take more courses through the New London Academy and other professional trainings as well as through programs such as Project Lead the Way, the School of Enterprise Marketing, Moodle, and Woodlinks. High school students are also beginning the process of creating Advisement Portfolios, which will continue to be developed into digital portfolios for career track and advancement. Overall, we have made immense progress on this goal and will continue to work towards further utilization of technology for teaching and learning.

Information Access/Learning Tools Goals

Goal 2.1: *The district will leverage existing network capabilities to facilitate increased communication and sharing of information between all stakeholders.*

Goal 2.2: *The district will increase the amount; consistency, relevancy, and user-friendliness of information on all district and individual school web pages to provide a uniform look, feel, and message.*

With the assistance of the technology referendum passed in 2008, we were able to update our internet connection switches and hubs as well as our computers at the Public Library which allow access to all school databases and information. This increased our connection speed and allowed for greater communication and file transfer between all stakeholders. In September 2008, we went live with a new website via CMS4Schools, which allowed us to provide a uniform look and feel for the School District of New London as well as make information clear, easy to access, and more user-friendly. We believe that we have been very successful with this goal.

Educator Proficiency Goals

Goal 3.1: *Provide staff appropriate technology training opportunities on a consistent basis with a wide variety of offerings.*

Goal 3.2: *Develop individualized “Staff Technology Goals” for each staff member.*

After conducting the enGauge survey, it was apparent that teachers are aware of technology tools but were not comfortable using them and needed more training to do so. A high percentage of teachers indicated that they would prefer District or school-sponsored courses. The New London Academy is a pilot project that was developed to provide teachers with in-house trainings that fit into their schedules. Technology offerings through the Academy have included courses such as “Integrating Technology within the Mathematics Curriculum” and “Creating a SMART Learning Community”. Early release times have been used for technology sessions as well as for individual training provided on an as-needed basis.

In the 2009-2010 school year, we implemented Teacher Technology Proficiencies. This is a program that every certified staff member completes to demonstrate seven areas of technology proficiency. Areas include basic computer set up, online communications, ethics and security, LMC purchased databases, and more. The program has been very successful in encouraging educators to explore their own comfort with technology as well as provide them with opportunities to learn how to use some of these skills in the classroom. We feel that we have been forward-thinking with our Teacher Technology Proficiencies and have successfully completed this goal for this Technology Plan’s term.

Systems Support and Instructional Leadership Goals

Goal 4.1: *The district will review and provide comprehensive improvements and/or upgrades to existing computer infrastructure.*

Goal 4.2: *The district will review and provide end-users with the most appropriate and current computer workstations possible.*

Goal 4.3: *The district will implement a standards-based electronic grading system at the Elementary level.*

Goal 4.4: *The district will conduct the enGauge assessment during the 2006/2007 school year.*

We were very fortunate to have used this 2007-2010 Technology Plan to guide our development of a technology referendum for the 2008-2009 school year. The referendum was passed in November 2008 and has helped us tremendously in being able to successfully complete this goal. During the summer of 2009, over 750 new computers were installed in our district. In addition to that, many Innovative Mini Grants were approved, garnering even more technology equipment for our classrooms at all levels. The district is in the process of reviewing available software for a standards-based electronic grading system and continues to evaluate new products.

Forward Thinking Goals

Goal 5.1: *Promote a culture that encourages innovation and embraces calculated risk-taking.*

Goal 5.2: *Promote and provide tools that support career exploration and development.*

Goal 5.3: *Use technology to assist in providing a feedback monitoring system to provide guidance in responding to the achievement or lack thereof the District's Student Success Indicators.*

We have collaborated with the NEW North through CESA 6, as well as many local business partners, to create programs for our students which will support their development of career choices and allow them to have a broad range of experiences before leaving high school. We have programs such as Project Lead the Way, which teams with the New London Medical Center, and Woodlinks, which works with New London Lumber. We also have high school students create portfolios through advisement groups. As this process continues and technology continues to become an integral part of their schooling, we hope to take this to a more digital level, reflecting the climate of the schools they attended. We encourage teachers to apply for Innovative Mini Grants and building level funds to explore technology in new and exciting ways. We strive to be forward thinking and continue to progress on our goals in this area.

Analysis of Needs Assessment

SCHOOL DISTRICT OF NEW LONDON– STUDENT & STAFF TECHNOLOGY SURVEY 2009-2010

Objectives:

- Establish a baseline for students regarding access, usage and impressions of technology at home and school.
- Establish a baseline for certified staff regarding access, usage and impressions of technology at home and school.
- Identify trends within these groups and gaps between these groups as a source for defining technology strategies in SDNL.
- Provide insight for the development of SDNL's Information Library Media & Technology Plan.

Methodology:

In early 2010, 405 students and 180 certified staff were provided an opportunity to participate in a technology survey. The survey was conducted electronically using online survey software. Students were provided access to the survey via the building library media centers and were proctored by Library Media Technology Specialists. Certified staff were e-mailed an invitation to participate in the survey and the URL to access it. Participation was not mandatory and all responses were confidential.

Results:

A total of 305 students completed the survey (75% participation rate).

- 164 11th graders
- 141 8th graders

A total of 124 certified staff completed the survey (69% participation rate).

- Participating staff came from all grade levels
- Participating staff came from a broad level of teaching experience

Full survey results can be found in Appendix B.

TECHNOLOGY SURVEY (Student/Staff) – TOP LEVEL FINDINGS

- Students and staff have access to computers at school and home, including having Internet access.
- Computers are being used in school across a broad curriculum.
- Computers are more likely to be used on a weekly basis versus daily.
- While computers are used often, the duration of usage is often less than one hour per week.
- Student computer usage rises in frequency and duration as students move from 8th grade to 11th grade.
- Students believe computers can improve the quality of homework and enhance the learning experience.
- For students computers are the preferred tool for doing homework.
- Students and staff generally feel confident in their ability to use technology.
- Staff indicated a desire and willingness to expand their technology knowledge and capabilities.
- Students and staff understand what information is appropriate to share on the internet.
- Students and staff are satisfied with the availability of access to the Internet, however many express concerns with the amount of content that is filtered.
- Staff feels supported when they encounter technology related problems.

TECHNOLOGY SURVEY (Student/Staff) – IMPLICATIONS

- Need to increase the amount of time students and staff utilize computers and other technologies in the learning experience.
 - Preferred learning method of many students
 - More relevant and engaging for students
- Need to develop additional opportunities for staff to increase capacity in utilizing technology to deliver their curriculum.
 - Staff capabilities must keep up with students' expectations regarding technology in learning

- Staff has indicated a desire to expand their technology capabilities, especially as it pertains to the classroom and instruction.
- Staff has identified the technology tools and programs they would like to be proficient with.
- Based on staff and student response, New London School District is doing okay with our efforts to embed technology in our learning system but we definitely still need to improve and build our capabilities to deliver a 21st century education.

Other Needs Assessments

All teaching staff of SDNL are required to complete Teacher Technology Proficiencies (see Appendix D for full details). This program began in the 2009-2010 school year. A variety of trainings were provided for every portion of the Technology Proficiencies. All certified staff completed the proficiencies and much feedback was gained from the staff throughout this process. Many staff members commented on wanting more training at these basic levels, beyond what the Proficiencies cover. Other staff members indicated the need for trainings on more advanced topics, an opinion echoed in the Technology Survey given to staff. SDNL believes a second level of proficiencies would greatly benefit our teaching staff, which would in turn benefit our students.

In the past three years, 8th grade students have been taking an online assessment in fulfillment of the 8th grade Technology Literacy Requirement for the State of Wisconsin. Students have performed very well on this test, with the majority of 8th grade students receiving a 95% or higher on the assessment. Students proved they are technology literate and proficient in common terminology and applications. They had an especially strong understanding in how to use Microsoft programs, online databases, and Internet safety.

Inventory – Software

Software licenses and inventory counts are generally kept at the District Office where maintaining up-to-date and readily accessible information continues to be a major focus. Every effort is made to insure equitable access to software titles between schools and across grades.

Appendix C lists software that is approved for use in the School District of New London and has been selectively installed on District computers and/or servers. We are in the process of developing a standardized procedure/form for preview and approval of software at the building level. Currently, individual buildings and/or staff work in conjunction with the Director of Curriculum and Instruction,

building principal, and Technology Coordinator when requesting non district-level software to insure appropriateness and alignment with curriculum.

Inventory – Hardware

As of this writing, we have over 1120 networked computers spread between nine buildings serving nearly 3000 users throughout the School District. There are 8 wireless computer labs spread throughout the district, each containing 25 laptops. We are currently in the process of installing mounted LCD projectors in each classroom and computer lab (180 District wide) that will be hooked to the computer and DVD player. This process will be complete for the start of the 2010-2011 school year.

Our High School has 5 “pods” of 25 computers located in the Math, Science, English, Foreign Language, and Social Studies areas. The Business Education area has two labs of 27 computers, the Drafting/Tech Ed area has 54 computers, the Library Media Center has 35 computers, and the Guidance Office has 8 computers. The School of Enterprise Marketing (SEM), located within the High School, has 18 desktop computers, a wireless lab of 25 computers, 2 digital cameras, and 2 projection systems. There are 12 SMARTBoards in the building. The High School also houses the hardware that allows sending or receiving of classes via the KSCADE Distance Education Network through Fox Valley Technical College.

Our Middle School has 5 stand alone labs of 25 computers and 1 scanner. There are also 2 “wireless labs” on a cart. There are 6 SMARTBoards, 1 Hitachi Starboard, 4 Elmo document cameras, and 25 Apple iPod touches. In addition, the Middle School Library Media Center has 11 computers designated for student use, 2 digital cameras, 1 SMART Responder System with 24 remotes, 5 AlphaSmart keyboards, and 4 computer projection systems. The phone system at the Middle School was recently updated to a Voice over IP system.

At the elementary level, each building has one computer lab. Lincoln Elementary has 29 desktop computers, Parkview Elementary has 25 laptop computers, Readfield Elementary has 25 desktop computers, and Sugar Bush Elementary has 24 laptop computers. There are also many elementary classrooms that have computers available right in the room for student use. Among our four Elementary schools, we have 10 SMARTBoards, 3 Elmo document cameras, and 10 Apple iPod touches.

We print to 75 Laser printers and over 100 DeskJet printers across the district. All networked computers have flat screen monitors and the ability to burn CD's and over 600 of them can burn CD's or DVD's. All staff members have their own 2GB flash memory stick.

Inventory – Facilities

There are six schools in the School District of New London. Every classroom in the district has at least one networked PC. The Middle School has 2 wireless laptop labs, 5 stand-alone labs, and a fully wired and equipped Library Media Center. The High School, which was built and opened in 1999, has 5 “pods” of computers, 2 Business Education labs, 2 Tech Ed labs, a fully wired and equipped Library Media Center, and also houses the KSCADE distance education facility and equipment.

All buildings are wired with category 5 cables to the classrooms and computer labs, with most classrooms having at least two drops. In addition to the six schools, the Administration Office and bus garage are wired with sufficient network drops. The New London Public Library houses eight computers and a laser printer that are fully connected to the district network. The Middle School, High School, and two elementary schools have the ability to broadcast live or taped video to each classroom.

Inventory – Network and Telecommunications Capacities

The internal wiring of the buildings was completed in the fall of 1999 with the completion of the new high school. The School District of New London data network consists of four elementary buildings, one middle school, one high school, an administrative office, a bus garage, a connection to the public library, and a connection to the New London Police Department.

We are currently using 10 servers to run programs and store files. We have two remote servers, one at each of the two outlying elementary schools. Five of the 10 servers are running Novell NetWare 6.5, one is running Windows NT, and four are running Windows 2003. Fiber optic lines carry data to all city schools. Readfield Elementary and Sugar Bush Elementary have a wireless radio connection to the district office via a tower located on the Middle School.

Internet service is provided via a 25 Megabit per second connection from Wiscnet and is filtered in compliance with the Children's Internet Protection Act. Utilized protocols on our network include TCP/IP and IPX. Every classroom in the district is equipped with a phone.

Current Educational Technology Staffing

The School District of New London employs the following staff members dedicated to supporting and advancing the Mission of the district through the use of Information Technology.

POSITION	TERM
Technology Coordinator	Additional assignment contract
System Engineer	Full-time
Library Media Technology Specialists	Full-time (3)

Building-level secretaries in all six buildings in the district manage individual school web sites with assistance from the Technology Coordinator. The Library Media Technology Specialists (3) play a key role assisting with integrating computers and other technology at each of the schools and often serve as a “go to” person in their respective buildings.

Current Library Media Program

(Please see Appendix E for further Library Media Program analysis.)

New London High School

Description: The New London High School Library services students in grades 9-12, special education classes, online classes, Bilingual students, and a charter school, as well as their teachers.

Exceptions and Scope: The main goal of the library is to teach Information Literacy to ensure that students become lifelong learners. This is accomplished through teaching the Information Literacy skills and the purchase of good, reliable resources which support the curriculum and the students' interests.

Audience: Students in grades 9 - 12, including special education classes, online classes, a large Bilingual group, a charter school, and the teachers for those classes.

Availability:

The library is open from 7:00 a.m. - 8:30 p.m. (M-Thu) and 7:00 a.m. -3:15 (F). The Library is open in the evenings for use by any community member. Children under 6th grade need to be accompanied by adults. Community members may use materials while they are working in the library. However, they are unable to check out materials, unless they are students within our district. Non-networked computers are available in the evening for community members who desire to use them.

Size and Duplication: The collection contains 21,383 copies. Sections in the library are set aside for nonfiction, fiction, paperbacks, reference, bilingual, audio, and prints. Professional materials and high interest, low level materials (Hi-Lo) are not shelved in separate areas. E-Books and subscription databases are linked from *Destiny*. Newspapers and magazines are purchased annually for the students and staff to use.

Computers Available:

Staff computers: 2

Student computers: 26

Circulation computers: 1

Computers for check out: 1

Staff: 1.0 Library Media Technology Specialist

1.0 FTE library aide

Hourly After School Library Workers

Building Enrollment: 846 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. Building funds of \$2,400 are spent on supplies and equipment.

New London Middle School

Description: The New London Middle School Library Media Center is flexibly scheduled. The Library Media Specialist collaborates with classroom teachers on various research and technology-related projects.

Exceptions and Scope: The New London Middle School Library collection is intended to promote life-long learning, reading for enjoyment, and support curriculum as determined by the district's mission, standards, and goals. Materials are selected based on curriculum needs, age appropriateness, reading level, cost, and other factors.

Audience: The audience for this collection ranges from grades 6-8, with 5th grade being added in the 2010-2011 school year.

Availability: The New London Middle School library is open 7:45-3:30 during the regular school day.

Size and Duplication: The collection contains 13,486 various materials.

Computers Available:

Staff computers: 2

Student computers: 11

Circulation computers: 1

Computers for check out, etc.: 2

Staff: 1.0 Library Media Technology Specialist

1.0 FTE Library Aide

Building Enrollment: 556 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. The school budget funds separate supply and equipment accounts.

Lincoln Elementary School

Description: The Lincoln Library Media Center is flexibly scheduled, with the exception of 5th grade Technology classes. The Library Media Specialist teaches each fifth grade classroom for one 30 minute section per week. This class integrates 21st century skills and projects with the Social Studies curriculum. For grades K-4, the Library Media Specialist collaborates with classroom teachers on various research and technology-related projects. All grade levels utilize the library collection for a weekly check out time. The library aide assists with this process.

Exceptions and Scope: The library collection is intended to promote life-long learning, reading for enjoyment, and curriculum support as determined by the district's mission, standards, and goals. Materials are selected based on curriculum needs, new title availability, age appropriateness, reading level, cost, and other factors. The library also contains a professional section which provides materials specifically related to the curriculum, teaching strategies and styles, and general school issues.

Audience: The audience for this collection ranges from grades K-5, with 5th grade being moved to the Middle School in the 2010-2011 school year. The library also provided materials and services for staff members.

Availability: The Lincoln library is open 7:45am-3:30pm during the regular school day.

Size and Duplication: The collection contains 13,758 various materials.

Computers Available:

Staff computers: 2

Student computers: 29

Circulation computers: 1

Staff: 0.3 FTE Library Media Technology Specialist

1.0 FTE Library Aide

Building Enrollment: 329 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. The school budget funds separate supply accounts.

Parkview Elementary School

Description: The Parkview Library Media Center is flexibly scheduled, with the exception of 5th grade Technology classes. The Library Media Specialist teaches each fifth grade classroom for one 30 minute section per week. This class integrates 21st century skills and projects with the Social Studies curriculum. For grades K-4, the Library Media Specialist collaborates with classroom teachers on various research and technology-related projects. All grade levels utilize the library collection for a weekly check out time. The library aide assists with this process.

Exceptions and Scope: The library collection is intended to promote life-long learning, reading for enjoyment, and curriculum support as determined by the district's mission, standards, and goals. Materials are selected based on curriculum needs, new title availability, age appropriateness, reading level, cost, and other factors. The library also contains a professional section which provides materials specifically related to the curriculum, teaching strategies and styles, and general school issues.

Audience: The audience for this collection ranges from grades K-5, with 5th grade being moved to the Middle School in the 2010-2011 school year. The library also provided materials and services for staff members.

Availability: The Parkview library is open 7:45am-3:30pm during the regular school day.

Size and Duplication: The collection contains 13,870 various materials.

Computers Available:

Staff computers: 1

Student computers: 25

Circulation computers: 1

Computer for check out, etc.: 1

Staff: 0.3 FTE Library Media Technology Specialist

1.0 FTE Library Aide

Building Enrollment: 312 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. The school budget funds separate supply accounts.

Readfield Elementary School

Description: The Readfield Library Media Center is flexibly scheduled, with the exception of 5th grade Technology classes. The Library Media Specialist teaches the fifth grade classroom for one 30 minute section per week. This class integrates 21st century skills and projects with the Social Studies curriculum. For grades K-4, the Library Media Specialist collaborates with classroom teachers on various research and technology-related projects. All grade levels utilize the library collection for a weekly check out time. The library aide assists with this process.

Exceptions and Scope: The library collection is intended to promote life-long learning, reading for enjoyment, and curriculum support as determined by the district's mission, standards, and goals. Materials are selected based on curriculum needs, new title availability, age appropriateness, reading level, cost, and other factors. The library also contains a professional section which provides materials specifically related to the curriculum, teaching strategies and styles, and general school issues.

Audience: The audience for this collection ranges from grades K-5, with 5th grade being moved to the Middle School in the 2010-2011 school year. The library also provided materials and services for staff members.

Availability: The Readfield library is open 7:45am-3:30pm during the regular school day. The library is also used for the after school program until 5:30pm.

Size and Duplication: The collection contains 13,447 various materials.

Computers Available:

Staff computers: 1

Student computers: 2

Circulation computers: 1

Staff: 0.2 FTE Library Media Technology Specialist

1.0 FTE Library Aide

Building Enrollment: 176 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. The school budget funds separate supply accounts.

Sugar Bush Elementary School

Description: The Sugar Bush Library Media Center is flexibly scheduled, with the exception of 5th grade Technology classes. The Library Media Specialist teaches each fifth grade classroom for one 30 minute section per week. This class integrates 21st century skills and projects with the Social Studies curriculum. For grades K-4, the Library Media Specialist collaborates with classroom teachers on various research and technology-related projects. All grade levels utilize the library collection for a weekly check out time. The library aide assists with this process.

Exceptions and Scope: The library collection is intended to promote life-long learning, reading for enjoyment, and curriculum support as determined by the district's mission, standards, and goals. Materials are selected based on curriculum needs, new title availability, age appropriateness, reading level, cost, and other factors. The library also contains a professional section which provides materials specifically related to the curriculum, teaching strategies and styles, and general school issues.

Audience: The audience for this collection ranges from grades K-5, with 5th grade being moved to the Middle School in the 2010-2011 school year. The library also provided materials and services for staff members.

Availability: The Sugar Bush library is open 7:45am-3:30pm during the regular school day. The library is also used for the after school program until 5:30pm.

Size and Duplication: The collection contains 9,582 various materials.

Computers Available:

Staff computers: 1

Student computers: 24

Circulation computers: 1

Staff: 0.2 FTE Library Media Technology Specialist

1.0 FTE Library Aide

Building Enrollment: 165 students

Budget: The LMC budget is supplied by the common school fund. The 430 account amounts are set by the yearly amount given to us by the state. The school budget funds separate supply accounts.

GOALS, OBJECTIVES, AND IMPLEMENTATION ACTION PLAN

Because we are a relatively small district with many overlapping roles/duties, the persons responsible for the Goals and Objectives will generally be:

- District Administrator
- Systems Engineer
- Technology Coordinator
- Director of Teaching and Learning
- Director of Business Services
- Building Administrators
- Director of Pupil Services
- Library Media Technology Specialists
- Members of the Technology Committee
- School Board
- Mission Leadership Team

EDUCATOR PROFICIENCY

Goal Statement: Develop high quality, practical, and leveled professional development based upon the use and application of technology in order to improve student achievement.

Objectives/Activities:

- Expand Teacher Technology Proficiencies to include advanced levels of technology abilities and uses.
- Provide training opportunities for teachers and leadership training for the Technology Committee.
- Expand New London Academy offerings including the ability to share resources openly between staff members.

EFFECTIVE TEACHING AND LEARNING

Goal Statement: Teachers and students will use current and emerging technologies, along with information literacy skills and resources, to demonstrate competence in the four Student Success Indicator areas: effective communicators; problem solvers and critical thinkers; self-directed and lifelong learners; and responsible, contributing citizens.

Objectives/Activities:

- Increase the use of communication and collaboration tools across all curriculum disciplines.

- Build staff capacity in the use of interactive forums as a communication device between staff and students as well as among students themselves.
- Continue to educate students according to the ISTE standards, which include research skills and Internet safety.

ACCESS TO INFORMATION RESOURCES AND LEARNING TOOLS

Goal Statement: Ensure learning environments continue to evolve in response to 21st century learner demands.

Objectives/Activities:

- Evaluate current filtering system and make changes as appropriate to provide the maximum access to information while upholding our responsibility of providing only appropriate material.
- Promote and fund Innovation Mini Grants to continue the exploration of new technologies while determining the scalability of those projects.
- Sustain acquisition and use of technology as it evolves, such as classroom use of Smartphones, social networking, and other Web 2.0 tools.

SYSTEMS SUPPORT AND INSTRUCTIONAL LEADERSHIP

Goal Statement: Seek ways to use emerging technologies to provide new options for learning while controlling costs.

Objectives/Activities:

- Implement a district-wide grading and reporting system.
- Evaluate and redesign learning areas to better reflect a 21st century learning environment.
- Update the job description of the Library Media Technology Specialists to reflect their role in 21st century learning.

IMPLEMENTATION ACTION PLAN

Goal Statement: Develop high quality, practical, and leveled professional development based upon the use and application of technology in order to improve student achievement.			
Objectives: 1.1 Expand Teacher Technology Proficiencies to include advanced levels of technology abilities and uses. 1.2 Provide training opportunities for teachers and leadership training for the technology committee. 1.3 Expand New London Academy offerings including the ability to share resources openly between staff members.			
Activity	Person Responsible	Timeline	Budget
1.1 Develop Level 2 Teacher Technology Proficiencies	Technology Committee	2010-2011	District Budget
1.2 Using the staff survey results, develop in-service training sessions on the technology tools teachers are most interested in.	Technology Coordinator Director of Teaching and Learning	Annual	District Budget
1.3 Ensure New London Academy courses are on a variety of topics teachers are most interested in.	Administration	Annual	District Budget
1.3 Explore data sharing systems, such as Microsoft SharePoint, our current CMS4Schools webpage, and others.	Systems Engineer Technology Coordinator	2011-2012	Technology Referendum

Goal Statement: Teachers and students will use current and emerging technologies along with information literacy skills and resources to demonstrate competence in the four Student Success Indicator areas: effective communicators; problem solvers and critical thinkers; self-directed and lifelong learners; and responsible, contributing citizens.

Objectives:
 2.1 Increase the use of communication and collaboration tools across all curriculum disciplines.
 2.2 Build staff capacity in the use of interactive forums as a communication device between staff and students as well as among students themselves.
 2.3 Continue to educate students according to the ISTE standards, which include research skills and Internet safety.

Activity	Person Responsible	Timeline	Budget
2.1 Target specials areas for trainings in tools that will increase the collaboration levels in their classroom and make them more project-based.	Director of Teaching and Learning Library Media Technology Specialists	Annual	District Budget
2.2 Provide trainings in the use of Moodle, blogs, and other interactive forums to an expanded audience other than what is currently offered.	Technology Coordinator	Annual	District Budget
2.3 Assess curriculum to ensure ITL standards are embedded in the curriculum at various levels.	Director of Teaching and Learning	2010-2013	Technology Referendum, STEM Grants, Kern Family Foundation Grant
2.3 Add Internet Safety into the curriculum at another grade level.	Director of Teaching and Learning	2011-2012	District Budget

Goal Statement: Ensure learning environments continue to evolve in response to 21 st century learner demands.			
Objectives: 3.1 Evaluate current filtering system and make changes as appropriate to provide the maximum access to information while upholding our responsibility of providing only appropriate material. 3.2 Promote and fund Innovation Mini Grants to continue the exploration of new technologies while determining the scalability of those projects. 3.3 Sustain acquisition and use of technology as it evolves, such as classroom use of Smartphones, social networking, and other Web 2.0 tools.			
Activity	Person Responsible	Timeline	Budget
3.1 Analyze the current filtering system.	Systems Engineer Technology Coordinator	2010-2011	Technology Referendum
3.1 Investigate possible alternatives to the current filtering practice	Systems Engineer Technology Coordinator	2011-2012	Technology Referendum
3.2 Continue awarding Innovation Mini Grants to teachers who apply for funding for innovative projects.	Technology Committee	Annual	Technology Referendum
3.3 Determine which technologies are best suited to our students by exploring the possibilities in small environments first and then expanding the programs that work.	Teaching staff Technology Committee	Annual	Technology Referendum

Goal Statement: Seek ways to use emerging technologies to provide new options for learning while controlling costs.			
Objectives: 4.1 Utilize a standards-based grading and reporting system to clearly communicate academic achievement. 4.2 Evaluate and redesign learning areas to better reflect a 21 st century learning environment. 4.3 Update the job description of the Library Media Technology Specialists to reflect their role in 21 st century learning.			
Activity	Person Responsible	Timeline	Budget
4.1 Explore electronic tools that meet criteria for K-12 grading and reporting needs.	Director of Teaching and Learning	2010-2011	District Budget
4.1 Implement a district-wide grading and reporting system.	Director of Teaching and Learning	2011-2013	Microsoft Cy Pres, Technology Referendum, District Budget
4.2 Analyze current trends for 21 st century learning spaces and adapt our learning areas.	Library Media Technology Specialists Administration	Ongoing	District Budget, Technology Referendum
4.3 Develop a comprehensive list of what a current Library Media Technology Specialist does for students and staff, as well as the library media program and develop a job description that fits.	Library Media Technology Specialists Director of Curriculum and Instruction Administration	2010-2011	District Budget

DISSEMINATION

The School District of New London Information Literacy and Technology Plan will be disseminated to all stakeholders in the community via the following methods:

1. Plan to be shared and approved by the School Board prior to submission to the Department of Public Instruction.
2. Plan will be placed in PDF format on the district website for download by any interested party.
3. Members of the Technology Committee will share the plan with all teachers in their respective buildings.
4. Technology Plan will be shared with the New London Public Library.

5. District Administrative Team to review plan along with implications it has for their buildings and student instruction.
6. Communication of Technology Committee reports/minutes and plan progress to be given throughout the school year at school board meetings.

MONITORING AND EVALUATION

The School District of New London Technology Committee will meet periodically to review, monitor, and adjust the plan when it becomes necessary. Other stakeholder groups, such as the School Board, the Administrative Team, the Mission Leadership Team, and the Parent-Advisory Council will also be kept informed regarding plan evaluation toward goal achievement.

In addition to monitoring of goals and objectives, the district will begin looking toward the next technology planning cycle in 2013. At each meeting time will be devoted to refining the vision and reviewing current research about educational technology and its effect(s) on student achievement.

The information and recommendations gathered from the stakeholder groups will be used as the basis for updating and adjusting the plan. This update will take place on an annual basis with the District Technology Committee and District Technology Coordinator having primary responsibility for this task.

Projected Budget for Information Library Media and Technology Plan

Projected Expenditures	Funding Source	School Year						
		2006-07	2007-08	Funding Source	2008-09	2009-10	2010-11	2011-12
Software Procurement		29000	35350		37000	37000	37000	37000
New Skyward Applications	Fund 10	15500	27700	Fund 10	28000	28000	28000	28000
Virtual Learning Opportunities								
	Plato Fund 10	7500		Fund 10				
	VHS Inc. Fund 10		1500	Fund 10	3000	3000	3000	3000
Instructional Software	Fund 10	6000	6150	Fund 10	6000	6000	6000	6000
Hardware, Facilities & Networking		228000	42500		215500	215500	215500	215500
Equipment Components, Backup tapes, Adapters, Cables, Caching Appliance, Peripherals, USB Backup Units, etc.	Fund 10	4000	2000	Referendum	5000	5000	5000	5000
Mobile Computer Labs	PV PTO	20000	0	PV PTO	0	0	0	0
Additional Computers	Fund 10		35000	Referendum	15000	15000	15000	15000
	Lease/							
Replacement Computers	Fund 10	200000		Referendum	190000	190000	190000	190000
Network Switches, Routers	Fund 10		2500	Referendum	2500	2500	2500	2500
Servers	Fund 10	4000	3000	Referendum	3000	3000	3000	3000
Operation, Maintenance, Upgrade, Communication		25950	26093		27300	27300	27300	27300
Skyward Bulk Hours	Fund 10	3750	5000	Fund 10	5000	5000	5000	5000
Maintenance and Support	Fund 10	5000	5000	Fund 10	5000	5000	5000	5000
	Fund 10			Fund 10 +				
Internet Service	+ e-rate	16000	16093	e-rate	16100	16100	16100	16100
Access TV/Video Upgrade								
KSCADE Maintenance Agreement	Fund 10	1200	1200	Fund 10	1200	1200	1200	1200
Professional Development		4800	2200		27700	27700	27700	27700
Skyward User Conferences	Fund 10	1000	1000	Fund 10	2000	2000	2000	2000
Technician Training				Fund 10	1000	1000	1000	1000
Information Literacy	Title 2-d	3800	1200	Title 2-d	1200	1200	1200	1200

Integration of 21st Century Skills				Referendum	15500	15500	15500	15500
Implementing Best Practices				Fund 10	5000	5000	5000	5000
Educational Tech Competencies				Fund 10	3000	3000	3000	3000

Human Resources		80367	86797		89340	91750	94233	96790
Maintain Existing Technology Positions	Fund 10	72167	78000	Fund 10	80340	82750	85233	87790
KSCADE Teacher - Additional 1/7th Contract	Fund 10	8200	8797	Fund 10	9000	9000	9000	9000

Other		78911	83482		87300	87400	87400	42100
Assure Instructional Content	Fund 10			Fund 10	1700	1700	1700	1700
	Fund 10							
	+ Title 2-							
Technology Innovation Mini-Grants	d	15000	16132	Referendum	19000	19000	19000	19000
	Common			Common				
	School			School				
School Library Resources	Funds	15279	16000	Funds	16000	16000	16000	16000
CMS4Schools - District Website design & maintenance	Fund 10		2600	Fund 10	1800	1800	1800	1800
KSCADE Membership Fee	Fund 10	3332	3450	Fund 10	3500	3600	3600	3600
Lease Payment (2006 \$200,000 computer purchase)	Fund 10	45300	45300	Fund 10	45300	45300	45300	

TOTAL EXPENDITURE BUDGET		447028	276422		484140	486650	489133	446390
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TOTAL REVENUE BUDGET		447028	276422		484140	486650	489133	446390
Fund 10		207249	255540		216940	219450	221933	179190
Federal Entitlements		4500	4882		1200	1200	1200	1200
e-rate								
Common School Funding (District-Wide Software)		15279	16000		16000	16000	16000	16000
Referendum		0	0		250000	250000	250000	250000
Other		20000						
Capital Lease for replacement technology		200000						

APPENDIX A

RESEARCH BIBLIOGRAPHY

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"The Power of Digital Learning: Integrating Digital Content". CEO Forum on Education and Technology, Jun 2000.Web.19 Feb. 2010.

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APPENDIX B

NEEDS ASSESSMENT SURVEY RESULTS

APPENDIX C

SOFTWARE INVENTORY

Accounting	Skyward
Student Records	
Discipline	Skyward
Scheduling	Educator Access/Family Access GroupWise
Attendance	
Grading	
Report Cards	
Vaccinations	
E-mail	
Home E-mail	GroupWise Web access
Application Software	Microsoft Office XP Professional
Web Design	Front Page 2000, 2002, 2003
Web Browsing	Internet Explorer 6.0
	Internet Explorer 8.0
	Mozilla Firefox
Library Software	Follett Destiny
Library Database Subscriptions	AP Images
	Badgerlink
	Biography Resource Center
	BrainPOP
	CQ Researcher
	CultureGrams
	eLibrary Science
	Ferguson's Career Guidance
	Learn360
	Pop Culture Universe
	SIRS Discoverer, Researcher, & Government Reporter
	Teen Health & Wellness
	WISCareers
	World Book Online
	World Conflicts
Web Learning	Moodle
Keyboarding	UltraKey

Virus Scanning	MacAfee
Operating Systems	Novell NetWare
	Windows XP
	Windows NT
	Windows Server 2003
Testing/Assessment	Scantron
Security Software	Deep Freeze
Back-up Software	Syncsort Backup Express
Drafting – Publishing Software	AutoCad 2007 Suite
	SolidWorks
Food Service	Wordware
Transportation Software	Lynx
Elementary Software	Kid Pix
	Kid Phonics
	Math Blasters
	Inspiration
	Kidspiration
Math Software	Geometers Sketchpad
	Fathom Dynamic Data

APPENDIX D

NEW LONDON TECHNOLOGY DOCUMENTS

APPENDIX F

DISTRICT POLICIES