NEW HAMPSHIRE STATEWIDE EDUCATIONAL TECHNOLOGY PLAN October 1998

Report of Results Achieved As of October 2001

If you have questions, comments, or suggestions for additions regarding the information contained within this document, please contact:

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GOALS AND OBJECTIVES

In 1998, the New Hampshire Department of Education developed its own annual School Technology Survey, aligning the survey questions with the Tech Plan goals and objectives. The NH School Technology Survey results from 1999, 2000, and 2001 are found in an attached comparison report.

GOAL 1: EXPANDING LOCAL CAPACITY

OBJECTIVE 1.1 -- LOCAL EDUCATIONAL TECHNOLOGY PLANS

All NH public school districts will develop an educational technology plan that addresses the educational improvement goals stated in their Local Educational Improvement Plan. Over time, the district's technology plan should be integrated within the educational improvement plan to form a coherent overall plan.

Success Indicators for Objective 1.1	Results Achieved
a) By October 1998, the Technology Plan Approval Rubric will be completed and disseminated to all schools. This rubric, containing clear and concise criteria, is the revised version of the Technology Plan Crosswalk Form.	By October 1998, an interim technology planning rubric was created for districts as a reference tool. By October 2001, a revised technology planning rubric was created for use by OET in reviewing and approving district technology plans.
b) By November 1998, a district planning toolkit which correlates all district-wide plans will be completed.	In July 2000, a web based NH Technology Planning Guide was published.
c) By November 1998, the district planning toolkit will be disseminated to all school districts.	In July 2000, a web based NH Technology Planning Guide was published.
d) By June 1999, all New Hampshire districts will have an approved technology plan conforming to the rubric criteria.	In July 2000, a web based list of Approved School District Technology Plans was published. As of October 2000, 83% had approved plans on file with the NHDOE.

OBJECTIVE 1.2 -- MODERN TECHNOLOGY FOR CLASSROOMS

All New Hampshire teachers and students should have modern computers and other educational technology in their classrooms. Modern computers are defined here as 486 PC or better, or Mac LCIII or better. A variety of configurations and student/computer ratios can be effective, and it is important for other learning centers in the school to also have computers (e.g., library/media center, computer lab, and administrative offices).

Success Indicators for Objective 1.2	Results Achieved
a) By November 2000, more than 80% of classrooms in each NH public school will have at least one modern computer, as indicated by the annual technology survey.	See survey question #3. As of November 1999, 60.32% of schools reported meeting this goal. As of spring 2001, 74.48% of schools reported meeting this goal.
b) By November 2000, all New Hampshire public schools will have a student to modern computer ratio of 10:1, as indicated by the annual technology survey.	See survey question #1. As of November 1999, 35.52% of schools reported ratios below 10:1. As of spring 2001, 52.18% of schools reported ratios below 10:1.

c) By November 2000, at least 1,000 upgraded computers will have been donated to NH public schools through the Computer in the Schools Program.	See http://www.state.nh.us/cits for more details about this program. As of August 2000, the CITS program has donated 1,036 computers to NH public schools.

OBJECTIVE 1.3 -- INTERNET ACCESS FOR CLASSROOMS

All New Hampshire classrooms will have medium to high-speed access to the Internet and World Wide Web. This access can be obtained through a telephone line and modem (28.8 kbps/sec or better) or a dedicated frame relay line (56kbps/sec or better). This direct line can then provide access to all computers that are linked to the school's Local Area Network.

Success Indicators for Objective 1.3	Results Achieved
a) Each year until 2001, the technology survey will indicate a 20% increase in the number of public schools and classrooms that are connected to the Internet.	See survey question #12. Between November 1998 and November 1999, there was a 24% increase in the number of schools reporting that more than 50% of their classrooms were connected to the Internet. By spring 2001, another 15.40% of schools reported this data.
b) By November 2000, all New Hampshire public schools will have access to the Internet, as indicated by the annual technology survey.	See survey question #12. As of November 1999, all but 2.94% of NH schools had Internet access. This was a 3.3% decrease from the previous year. By spring 2001, all but 1.38% of NH schools reported having Internet access to their school building.
c) By November 2001, 50% of the classrooms in each public school will have Internet access, as indicated by the annual technology survey.	See survey question #12. As of November 1999, 71.27% of schools reported that more than 50% of their classrooms were connected to the Internet. This was a 24% increase from the previous year. By spring 2001, 86.67% of schools reported this level of access.
d) By November 2001, 100% of all public schools will have at least 56K access to the Internet.	See survey question #15. As of November 1999, all but 15% of NH schools reported having 56K or better Internet access. This was a 12% decrease from the previous year. By spring 2001, all but 6.9% of NH schools reported having at least 56K access, and the majority (64.83%) reported having high speed access.

OBJECTIVE 1.4 -- SOFTWARE AND ON-LINE CURRICULUM RESOURCES

Effective and engaging software and on-line resources will be an integral part of every school's curriculum.

Success Indicators for Objective 1.4	Results Achieved
a) Each year, the technology survey results will report an increase in the extent to which computers and other technology are used in the classroom.	See survey question #38. Between November 1998 and November 1999, the number of schools reporting 30% or more of their students used a computer at school daily increased by 12%. By spring 2001, the majority of schools (62.76%) reported that 30% or more of their students used a computer at school daily.

b) By June 1999, all components of the NH Educator's Web Site will be fully operational.	NH Educators Online was launched in June 1999 at www.nheon.org. The site continues to expand and develop with the assistance of a team of NH educators. In spring 2001, site improvements were planned, including a new site design and a dedicated server. The new site is expected to be online by November 2001. In addition, a grant from the Worldcom MarcoPolo Foundation for the current year
c) By November 1999, at least 50% of all NH public schools will report an increase in regular classroom use of a variety of effective, engaging software and on-line resources.	See survey question #37. Between November 1998 and November 1999, an increase of 4% of schools reported student use of technology for regular individual and group use for communication and research, as well as for collaborative activities. By spring 2001, this type of use remained constant. However, a significant increase from 17.29% to 25.75% of schools reported regular individual and group use of technology as communication and research tools.

OBJECTIVE 1.5 -- TRAINING AND SUPPORT FOR TEACHERS

All teachers will have the training and support they need to help all students learn through computers, the information superhighway, and other technologies.

Success Indicators for Objective 1.5	Results Achieved
a) Each year until November 2001, professional development participation in local, regional, and statewide technology-related activities will increase by 25%, as indicated by the annual technology survey.	See survey questions #27 and #32. Between November 1998 and November 1999, an additional 11% of schools reported teachers completing between 6-10 hours of technology professional development, although the number of schools with teachers engaged in more than 10 hours decreased by 1%. By spring 2001, there was slight increase of a few percentage points in these numbers.
b) By July 2001, teacher competencies related to the use of technology for teaching and learning will be included in all teacher certification areas.	The NH Department of Education is engaged in an extensive effort to revise all teacher certification standards. Working with a group of stakeholders, the Certification Task Force is currently redrafting General Education, General Professional Education, and General Special Education standards. Standards revision activities will continue into 2001.
c) By July 1999, a Computer/Technology Educator teacher certification area will be established.	As of August 1, 1999, standards for the Computer Technology Educator certification area became effective. Three teacher preparation institutions within NH have developed certification programs for this credential.

GOAL 2: EXPANDING STATEWIDE CAPACITY

OBJECTIVE 2.1 -- STATEWIDE LEADERSHIP STRUCTURE

The New Hampshire Department of Education will formalize and sustain a state-level process and structure, with representation from key stakeholder groups, to provide leadership for ongoing planning, coordination, communication, and promotion of effective technology integration in our education system. This process and structure will address the objectives in this plan as well as long-term financing, infrastructure design, acquisition, utilization, and ongoing technical support.

Success Indicators for Objective 2.1	Results Achieved
a) The Tech Council will be formally recognized by all policy groups as the group responsible for planning, coordinating, communicating, and evaluating efforts to effectively integrate technology within the public education system.	The NH Statewide Educational Technology Council meets periodically throughout the year to advise the NHDOE Office of Educational Technology on various initiatives and issues. The Council meets either at the NHDOE in Concord or via videoconferencing at various Granite State Distance Learning Network sites.
b) The Tech Council will advise the NHDOE Educational Technology staff on essential technology matters, such as the Statewide Educational Technology Plan, the Technology Survey, and the Technology Literacy Challenge Fund.	The NHDOE presented these key issues to the Council for advisement during the year.
c) The Tech Council will retain active representation from key stakeholders. These include NHDOE, State Board, Schools, Governor's Office, and Legislature.	Representatives from each of these groups were in attendance. During the 2000 and 2001 years, the Council experimented with virtual meetings and less frequent meetings in an effort to increase the frequency of attendance.

OBJECTIVE 2.2 -- EDUCATIONAL TECHNOLOGY RESOURCE SYSTEM

The NHDOE will work collaboratively with the Technology Council to develop an educational technology resource system for supporting districts as they plan, implement, and evaluate technology integration.

Success Indicators for Objective 2.2	Results Achieved
a) By December 1998, the New Hampshire Educators' Web Site (see Appendix) will be launched and available to the educational community.	NH Educators Online was launched in June 1999 at www.nheon.org. The site continues to expand and develop with the assistance of a team of NH educators. The Concord School District has assisted with the improvement and expansion of the site, by engaging a team of educators from Concord and other school districts.
b) By November 1999, the NHEON project will have received at least 200 lesson plan submissions for potential posting to the web site.	When NH Educators Online was launched in June 1999, it contained nearly 300 lesson plans. During the 1999-2000 academic year, the NHEON development team contributed an additional 200 lesson plans. The TLCF professional development projects awarded during Rounds 4 and 5 are

	required to submit to the site a minimum of 2 lessons per award. These contributions will continue to be submitted until August 2002.
c) By November 1998, the Technology Planning Toolkit, including the Approval Rubric will be completed and made available to school districts.	The NHDOE Technology Planning Guide was posted online in July 2000. To create an awareness of the guide and its use, workshops were made available periodically to all school districts.
d) By June 1999, the Tech Council will evaluate the possibility of expanding the Educational Technology Resource System to include on-line and off-line resources. (See Appendix.)	With the launching of the NH Educators Online site, this resource system was made available to all school districts. No decisions have been made regarding an additional off-line component of this system.

OBJECTIVE 2.3 -- TECHNICAL ASSISTANCE

A range of assistance will be provided by NHDOE to districts to plan, implement, and evaluate technology integration. These needs include infrastructure, hardware, networking, software, and other technical issues as well as educational issues related to curriculum, instruction, and assessment.

Success Indicators for Objective 2.3	Results Achieved
a) By November 1998, a set of resource materials regarding Year 2000 Problem will be disseminated by the NHDOE to school district technology contacts.	Working with the NHSTE organization, Y2K workshops were held at various locations during the year 1999. A Y2K Resource Kit was distributed electronically to all school technology contacts.
b) By December 1998, each of the Department's Regional Field Service Teams will receive updated information from its technology profile database regarding technology needs and strategies to address these needs.	Due to a change in focus of the work of the Regional Field Service Teams, this anticipated presentation was not made to the teams.
c) By December 1998, the NHDOE Educational Technology staff will initiate e-mail distribution of technology communications to all NH public schools and will continue these e-mails on a regular basis. Those few schools without e-mail access will be sent hard copy.	Regular email communications via the NHDOE ETNews have been distributed monthly since December 1998. Since field response to this publication has been very encouraging, ETNews will continue to be sent to all school technology contacts on a regular basis.

OBJECTIVE 2.4 -- LONG TERM FINANCING FOR EDUCATIONAL TECHNOLOGY

Local technology planning and local decisions about resources are consistent with New Hampshire's strong tradition of local control. We have accomplished a great deal — in education and in other areas related to quality of life — without broad-based taxes. Funds from outside a community, whether they come from state resources or federal programs, are deployed according to locally determined priorities. Even in cases where mandates (e.g., IDEA) have not been fully funded at the state or federal level, New Hampshire communities have risen to the challenge of providing quality education services.

For the vision and plan of action described in this plan to be achieved, leaders from all sectors must develop and pursue long-term commitments for financing educational technology.

Success Indicators for Objective 2.4	Results Achieved

a) By July 2000, increased commitments by all major educational stakeholder groups to long-term financing of educational technology will be evident.	No significant long term financing has been achieved as of this report date.
b) By July 1999, the Tech Council will form a finance subcommittee to explore and articulate long term strategies.	A finance subcommittee was formed in January 1999 to address financing strategies. The subcommittee organized a Technology Summit to consult on financing issues. The Summit was held in October 1999 and attended by approximately 40 stakeholders.

OBJECTIVE 2.5 -- PROMOTE DISTANCE LEARNING

A variety of organizations are working to promote distance learning opportunities in New Hampshire. Distance learning can serve the technology needs of all communities in New Hampshire, from our many geographically isolated small rural communities to our rapidly expanding urban communities attracting a diverse population, and our wealthy versus poor school districts.

Success Indicators for Objective 2.5	Results Achieved
a) The number of distance learning programs offered within NH will increase.	See survey question #19. The Survey 2000 collected baseline information about distance learning being offered within NH schools. Results from the following survey in 2001 provided fairly insignificant data for comparison.
b) The number of distance learning sites within NH communities will increase.	See survey question #19. The Survey 2000 collected baseline information about distance learning being offered within NH schools. Results from the following survey in 2001 provided fairly insignificant data for comparison.
c) The Distance Learning Commission and State Educational Technology Council will collaborate and coordinate distance learning efforts to achieve their goals.	Although some communications regarding distance learning have taken place, no significant collaborative results between these two groups have been achieved as of this report date.

TIMELINE OF RESULTS ACHIEVED AS OF OCTOBER 2001

O = date objective achieved

	YEAR:	Dec 98	Jun 99	Dec 99	Jun 00	Dec 00	Jun 01	Dec 01
GOAL 1: SCHOOL CAPACITY BUILDING								
Objective 1.1: Local Technology Planning								
1.1.a	Tech Plan Rubric disseminated	O						
1.1.b	Planning toolkit completed	-------->	-------->	-------->	O			
1.1.c	Planning toolkit disseminated	-------->	-------->	-------->	O			
1.1.d	Approved tech plans in all districts	-------->	-------->		*Efforts continuing*			
Objective 1.2: Modern technology for classrooms								
1.2.a	One+ modern computer for >80% classrooms	-------->	-------->	74% of	Schools	-------->	-------->	
1.2.b	10:1 ratio for all NH schools	-------->	-------->	52% of	Schools	-------->	-------->	
1.2.c	1000+ cmptrs to schools (CITS)	-------->	-------->	-------->	O	-------->	-------->	
Objective 1.3: Internet access for classrooms								
1.3.a	20% increase in schools/classrooms connected	-------->	-------->	30%	Increase	In 2 yrs	-------->	
1.3.b	Internet access for all NH schools	-------->	-------->	99% of	Schools	-------->	-------->	
1.3.c	50% classrooms have access in 100% of schools	-------->	-------->	87% of	Schools	-------->	-------->	
1.3.d	100% of NH schools have 56K or +	-------->	-------->	93% of	Schools	-------->	-------->	
Objective 1.4: Effective & engaging software/resources								
1.4.a	Increased classroom tech use	-------->	-------->	15%	Increase	In 2 yrs	-------->	-------->
1.4.b	NHEd Web Site fully operational (NHEON)	-------->	O					
1.4.c	50% + NH schools report increased regular use of software and online resources	-------->	-------->	4%	More	Schools	-------->	
Objective 1.5: Training & support for teachers								
1.5.a	25% PD participation increase	-------->	-------->	15%	Increase	In 2 yrs	-------->	-------->
1.5.b	Ed tech competencies/all tchr cert.	-------->	-------->		*Efforts continuing*			-------->
1.5.c	Cmptr/Tech Educator cert. establ.	-------->	-------->	O				
GOAL 2: STATEWIDE CAPACITY BUILDING								
Objective 2.1: Statewide leadership structure								
2.1.a	Tech Council responsibility recognized	-------->	-------->		*Efforts continuing*			-------->
2.1.b	Tech Council advise NHDOE staff regarding essential ed tech matters	-------->	-------->		*Efforts continuing*			-------->
2.1.c	Retain active representation on Tech Council from key stakehldrs	-------->	-------->		*Efforts continuing*			-------->
Objective 2.2: Ed Tech Resource System								
2.2.a	NHEON web site launched	-------->	O					
2.2b	200+ lesson plans submitted	-------->	-------->	O		*Efforts continuing*		
2.2c	Tech Plan Toolkit & rubric available	-------->			O			
2.2d	Possible expansion of Ed Tech Resource System evaluated by Tech Council	-------->	-------->		*No plans beyond NHEON expansion*			
Objective 2.3: Technical Assistance								
2.3.a	Y2K resource materials to schools	-------->	O					
2.3.b	Updated ed tech info on needs to NHDOE regional team members	-------->	*tabled*					
2.3.c	Begin regular ed tech email distribution to all NH school tech contacts	O			*Efforts continuing*			
Objective 2.4: Long term ed tech financing								
2.4.a	Increased commitment from all major stakeholders	-------->	*Summit*	*held*	-------->			
2.4.b	Finance subcommittee formed	O						
Objective 2.5: Promote distance learning								
2.5.a	Increase in DL programs offered	-------->	*Baseline data collected*			-------->	-------->	-------->
2.5.b	Increase in DL sites in NH	-------->	*Baseline data collected*			-------->	-------->	-------->
2.5.c	DLC and Tech Council coordination	-------->	-------->	-------->	-------->	-------->	-------->	-------->

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NEW HAMPSHIRE SCHOOL TECHNOLOGY SURVEY
Comparison Report for 1999, 2000, and 2001 Data

The following Comparison Report for 1999, 2000, and 2001 is the result of the New Hampshire School Technology Surveys. The Office of Educational Technology (OET) at the New Hampshire Department of Education sent surveys to technology contacts in each NH public school building. The 1999 Technology Survey was mailed in October 1998 and the 2000 Technology Survey was mailed in October of 1999. The 2001 survey was completed online between October 2000 and June 2001. Completion of the surveys is required, in order for a NH school district to be eligible for any technology funds administered through OET. All New Hampshire public school buildings responded to each survey. In 1999 this included 449 school buildings. In 2000 this included 441 school buildings. In 2001 this included 435 school buildings.

To assist those completing the 2000 and 2001 surveys, responses from the previous years were populated into the new survey. The questions varied slightly from the 1999 survey to the 2000 survey, so the numbering from the 2000 survey took precedence. The same questions were asked in 2001 as in 2000. This enabled many of our schools to note changes and growth with respect to individual questions.

For more information regarding the New Hampshire School Technology Surveys please contact:

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HARDWARE

1. What is your current student-to-modern multimedia computer ratio as defined by levels A, B, and C in question 2? Please count only computers which are available for student use (i.e., no administrative computers).

RATIO:	1999	2000	2001
None	0.44%	0.00%	0.46%
> 25:1	17.56%	10.86%	4.83%
Between 25:1 and 10:1	49.78%	46.61%	40.69%
Between 9:1 and 5:1	22.67%	27.60%	40.00%
Lower than 5:1	6.67%	7.92%	12.18%
No response	2.89%	7.01%	1.84%

2. How many computers of each type does your school building have? [In the 1999 technology survey C level computer numbers were reported together with B level computers.]

1999 LEVELS:	A		B		C	
FEATURES	486 PC/Mac '040 8-16 Mb RAM Win 3.1/Mac OS 7.0		Pentium/Power PC 16-32 Mb RAM CD/Multimedia Win 95-98/Mac OS 7.6		Pentium II/Mac G3 or better 32-64 Mb RAM or more CD/Multimedia Win 95-98/Mac OS 8.x	
MAC :	3,308	MAC :	5,617	MAC :	N/A	
PC :	3,459	PC :	9,959	PC :	N/A	

2000 LEVELS:	A		B		C	
FEATURES	486 PC/Mac '040 8-16 Mb RAM Win 3.1/Mac OS 7.0		Pentium/Power PC 16-32 Mb RAM CD/Multimedia Win 95-98/Mac OS 7.6		Pentium II/Mac G3 or better 32-64 Mb RAM or more CD/Multimedia Win 95-98/Mac OS 8.x	
MAC :	3,459	MAC :	5,310	MAC :	1,899	
PC :	3,530	PC :	10,061	PC :	4,615	

2001 LEVELS:	A		B		C	
FEATURES	486 PC/Mac '040 8-16 Mb RAM Win 3.1/Mac OS 7.0		Pentium/Power PC 16-32 Mb RAM CD/Multimedia Win 95-98/Mac OS 7.6		Pentium II/Mac G3 or better 32-64 Mb RAM or more CD/Multimedia Win 95-98/Mac OS 8.x	
	MAC :	2,880	MAC :	4,925	MAC :	4,239
	PC :	2,214	PC :	10,141	PC :	10,268

3. What percent of the school's classrooms have at least one modern multimedia computer? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	21.83%	28.95%	45.21%	4.01%
2000	13.15%	26.30%	60.32%	0.23%
2001	7.59%	17.24%	74.48%	0.69%

4. What percent of the school's modern computers are located in computer labs? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	57.68%	33.18%	5.57%	3.56%
2000	57.82%	37.19%	4.31%	0.68%
2001	55.63%	39.77%	3.68%	0.92%

5. What percent of the school's modern computers are located in instructional classrooms? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	26.73%	43.88%	26.28%	3.12%
2000	17.69%	49.66%	31.75%	0.91%
2001	14.94%	49.20%	35.17%	0.69%

6. What percent of the school's modern computers are located in the library media center? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response	
	1999	86.64%	8.02%	2.00%	3.34%
	2000	91.38%	6.58%	1.13%	0.91%
	2001	93.10%	4.83%	1.15%	0.92%

7. What percent of the school's modern computers are located in administrative offices? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response	
	1999	92.87%	3.56%	0.45%	3.12%
	2000	96.37%	2.72%	0.23%	0.68%
	2001	97.47%	1.61%	0.23%	0.69%

8. What percent of printers available to students in your school are dot matrix printers? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response	
	1999	61.69%	23.39%	11.58%	3.34%
	2000	75.51%	15.42%	7.48%	1.59%
	2001	86.90%	8.51%	3.91%	0.69%

9. What percent of printers available to students in your school are ink jet printers? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response	
	1999	36.97%	39.42%	20.49%	3.12%
	2000	31.75%	39.68%	27.44%	1.13%
	2001	25.98%	40.69%	32.41%	0.92%

10. What percent of printers available to students in your school are laser printers? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response	
	1999	72.16%	19.38%	5.35%	3.12%
	2000	69.68%	20.14%	8.37%	1.81%
	2001	63.68%	21.38%	14.02%	0.92%

11. How does your school deal with the technical maintenance and/or technical support of hardware? Check all that apply. [In the 1999 technology survey descriptions with a N/A response were not included.]

DESCRIPTION	1999	2000	2001
No maintenance Plan. Support provided piecemeal fashion by staff and students.	19.82%	12.52%	16.09%
Our school has part-time contracted services.	68.37%	27.40%	31.72%
Our school has full-time contracted services.	N/A	1.09%	2.99%
Our school has a part-time technical support person on staff.	N/A	28.49%	37.01%
Our school has at least one full-time, in-school technical support person on staff.	6.68%	10.34%	19.54%
Our school has a program for providing technical support by students	N/A	3.63%	5.52%
Other	N/A	13.25%	22.30%
No response	5.12%	3.27%	1.38%

CONNECTIVITY

12. What percent of your classrooms or libraries are connected to the Internet? Check only one.

DESCRIPTION	1999	2000	2001
No Internet access in the school	6.24%	2.94%	1.38%
Internet access available in the library or computer lab only	21.60%	10.18%	4.37%
Less than 50% of classrooms are connected to the Internet	21.38%	13.80%	6.90%
More than 50% of classrooms are connected to the Internet	47.22%	71.27%	86.67%
No response	3.56%	1.81%	0.69%

13. What percent of your building administrators are connected to the Internet? Check only one.

DESCRIPTION	1999	2000	2001
No Internet access in the school specially for administration	23.39%	9.30%	0.00%
Less than 50% of administrators are connected to the Internet	11.80%	4.76%	2.30%
More than 50% of administrators are connected to the Internet	9.58%	7.71%	5.06%
All administrators are connected to the Internet	49.67%	76.19%	87.82%
No response	5.57%	2.04%	4.83%

14. How are the majority of your classroom or library computers connected? Check only one.

DESCRIPTION	1999	2000	2001
Not applicable / No connection	19.60%	9.28%	3.91%
LAN (Local Area Network) only (within the building)	42.32%	44.34%	43.22%
WAN (Wide Area Network) only (to other buildings in district)	3.56%	2.94%	2.76%
Both LAN and WAN	28.51%	41.86%	49.66%
No response	6.01%	1.58%	0.46%

15. Of those classrooms or libraries connected to the Internet, what type of connection do the majority have?

DESCRIPTION	1999	2000	2001
Not applicable / No connection	6.68%	2.93%	1.38%
Dial-up access	20.71%	11.96%	5.52%
56Kb Internet access	38.08%	42.66%	27.59%
High-speed Internet access (e.g., ISDN, T1, Cable, ATM)	28.95%	39.50%	64.83%
No response	5.57%	2.93%	0.69%

16. What percent of your students have an e-mail address provided by the school? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	89.98%	2.45%	2.23%	5.35%
2000	94.56%	1.81%	1.36%	2.27%
2001	95.17%	1.61%	2.07%	1.15%

17. What percent of your teachers have an e-mail address provided by the school? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	41.43%	12.25%	40.98%	5.35%
2000	28.34%	12.02%	57.82%	1.81%
2001	17.01%	9.43%	72.64%	0.92%

18. Is your school filtering Internet access to students? Check all that apply. [Specific application names were not asked in the 1999 Technology Survey.]

DESCRIPTION	1999	2000	2001
No. We do not filter. (If no, do not check any other box)	65.70%	65.99%	49.66%
Yes. We use the following filtering software and /or procedures:	28.06%	32.74%	41.84%
Cyberpatrol	N/A	4.94%	7.82%
Surfwatch	N/A	4.63%	0.23%
Net Nanny	N/A	0.62%	0.46%
QSonic Wall	N/A	4.94%	11.72%
WebSense	N/A	0.15%	0.46%
Microsoft Proxy	N/A	5.56%	9.89%
Netscape Proxy	N/A	3.09%	0.69%
CSM Proxy	N/A	1.54%	7.13%
Other - please specify	N/A	7.26%	18.85%
No response	6.24%	1.27%	1.15%

19. Please indicate whether your school is engaged in any of the following distance learning activities and the type of connectivity used to deliver content. Check all that apply. [This question was not asked on the 1999 Technology Survey.]

2000 - CONTENT	ISDN	T1	ATM	Cable	Satellite	Broadcast	Other
Coursework for students	0.15%	1.07%	0.00%	4.27%	3.05%	2.90%	0.76%
Coursework for staff	1.07%	3.35%	0.76%	1.07%	1.07%	0.30%	2.13%
Projects for students	1.22%	5.49%	0.30%	3.96%	1.68%	1.83%	2.29%
Projects for staff	0.46%	3.05%	0.30%	1.22%	0.91%	0.61%	0.46%
Video-conferencing	0.00%	1.37%	0.61%	0.30%	0.61%	0.00%	0.15%
Connectivity available but not yet utilized	0.76%	1.83%	0.61%	3.35%	1.68%	1.37%	1.52%
No response	40.09%						

2001 - CONTENT	ISDN	T1	ATM	Cable	Satellite	Broadcast	Other
Coursework for students	1.15%	2.53%	0.92%	7.36%	4.14%	3.91%	3.68%
Coursework for staff	3.91%	13.79%	1.61%	5.98%	2.76%	0.69%	11.49%
Projects for students	2.53%	11.95%	0.69%	7.13%	3.68%	2.53%	7.82%
Projects for staff	2.30%	10.34%	1.15%	3.22%	2.76%	0.46%	6.44%
Video-conferencing	0.00%	3.45%	0.92%	0.46%	2.53%	0.00%	2.53%
Connectivity available but not yet utilized	2.07%	4.14%	0.46%	9.2%	2.99%	2.99%	2.53%
No response	40.00%						

CONTENT

20. What percent of your students use drill and practice programs (i.e. educational software that engages students in multiple choice, true and false, or "worksheet" type of questions) on regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	71.94%	19.15%	5.57%	3.34%
2000	69.39%	24.49%	5.22%	0.91%
2001	66.21%	25.06%	8.51%	0.23%

21. What percent of your students use *basic authoring* applications such as word processors, spreadsheets and drawing programs (i.e., KidPix) on a regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	23.39%	47.44%	25.39%	3.79%
2000	18.10%	45.93%	33.94%	2.04%
2001	13.56%	44.37%	41.15%	0.92%

22. What percent of your students use advanced authoring applications such as Web publishing software, presentation software (i.e., PowerPoint) and/or collaborative GroupWare on a regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	84.41%	10.47%	1.78%	3.34%
2000	79.37%	16.33%	2.27%	2.04%
2001	69.89%	23.68%	5.52%	0.92%

23. What percent of your students use *simulating* software (i.e., SimCity, ADAM, etc.) on regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	84.41%	10.91%	0.89%	3.79%
2000	85.97%	12.44%	0.68%	0.90%
2001	82.30%	14.02%	3.22%	0.46%

24. What percent of your students use *CD-ROM research resources* (i.e., CD-ROM encyclopedias) on regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	39.42%	41.43%	15.81%	3.34%
2000	34.01%	45.58%	19.50%	0.91%
2001	29.89%	48.51%	21.38%	0.23%

25. What percent of your students use the World Wide Web on a regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	60.13%	30.96%	5.35%	3.56%
2000	47.85%	40.14%	11.11%	0.91%
2001	34.02%	46.21%	19.54%	0.23%

26. What percent of your students use *networked communications* (i.e., e-mail bulletin boards, list serves, etc. to contact resources outside the classroom) on a regular basis as part of the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	91.09%	4.45%	0.45%	4.01%
2000	90.93%	6.80%	0.45%	1.81%
2001	89.66%	7.59%	2.30%	0.46%

PROFESSIONAL DEVELOPMENT

27. How many technology-related professional development hours, over the past year, have the majority of teachers completed? Check only one.

RANGE:	0-5 hours	6-10 hours	Over 10 hours	No response
1999	59.47%	30.73%	6.24%	3.56%
2000	52.26%	41.86%	4.98%	0.90%
2001	48.05%	45.98%	5.52%	0.46%

28. Are technology skills addressed in the individual teachers' staff development plans? Check only one.

RANGE:	Yes	No	No response
1999	81.74%	14.03%	4.23%
2000	87.56%	10.86%	1.58%
2001	88.51%	11.03%	0.46%

29. How long have the majority of teachers been frequent users of technology? Check only one.

RANGE:	1999	2000	2001
0-3 months	3.56%	0.68%	0.23%
3 months - 2 years	53.45%	34.24%	22.99%
2-3 years	21.38%	34.24%	36.32%
Over 3 years	18.49%	29.71%	40.00%
No response	3.12%	1.13%	0.46%

30. Does your school provide teachers with regular out-of-class preparation time during their scheduled day for learning and integrating technology into the curriculum? Check only one.

RANGE:	Yes	No	No response
1999	21.83%	74.39%	3.79%
2000	23.81%	75.28%	0.91%
2001	26.90%	72.18%	0.92%

31. How does your school provide staff support for (a) effectively using applications software and (b) applying curriculum integration strategies? Check all that apply. [This question was not asked on the 1999 Technology Survey.]

2000 – DESCRIPTION	Application Software	Curriculum Integration
There is no official support plan in place. Support is provided in a piecemeal fashion by staff and students.	34.92%	41.95%
Our school has part-time contracted services.	7.26%	6.80%
Our school has full-time contracted services.	0.91%	0.10%
Our school has a part-time support person on staff.	26.53%	24.04%
Our school has at least one full-time, in-school support person on staff.	13.38%	12.02%
Our school has a program for providing support by students.	1.81%	1.36%
Other. Please explain in question 42 if you provide support in another way.	12.02%	12.47%

2001 - DESCRIPTION	Application Software	Curriculum Integration
There is no official support plan in place. Support is provided in a piecemeal fashion by staff and students.	43.22%	35.86%
Our school has part-time contracted services.	13.33%	9.20%
Our school has full-time contracted services.	26.21%	0.69%
Our school has a part-time support person on staff.	50.34%	24.14%
Our school has at least one full-time, in-school support person on staff.	35.40%	19.08%
Our school has a program for providing support by students.	11.49%	1.84%
Other. Please explain in question 42 if you provide support in another way.	31.03%	18.39%

32. What type of on site technology-related professional development did your teachers participate in during the previous academic year? Check all that apply.

DESCRIPTION	1999	2000	2001
Basic introduction to hardware/software applications.	87.75%	82.18%	86.44%
Multi-day courses run by public or private technology training organizations.	31.63%	35.41%	38.62%
On-site visits to technology-using classrooms.	19.38%	19.15%	20.00%
On-line distance learning professional development courses.	5.12%	10.69%	16.55%
In-school one-on-one professional mentoring on a consistent or just-in-time basis	50.56%	69.93%	71.03%
Collaborative team-teaching opportunities with technology proficient instructors.	38.75%	44.32%	47.36%
Action-research oriented projects.	10.69%	17.37%	17.93%
Research using the Internet on a regular basis.	38.75%	46.77%	52.64%

INSTRUCTOR SKILL-LEVELS

33. What percent of your teachers are at the stage Entry and Adoption, i.e., teachers are just beginning to learn how to use basic applications such as word processors and drill and practice software? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	54.12%	35.63%	5.57%	4.68%
2000	59.18%	35.15%	3.63%	2.04%
2001	62.07%	33.56%	3.68%	0.69%

34. What percent of your teachers are at the stage Adaptation, i.e., teachers are familiar with a variety of applications and often require students to use technology to complete assignments? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	41.20%	51.67%	2.90%	4.23%
2000	33.33%	61.68%	3.17%	1.81%
2001	30.11%	64.14%	5.06%	0.69%

35. What percent of your teachers are at the stage Appropriation, i.e., teachers regularly use technology for collaboration, communication, and research and integrate these processes into the curriculum? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	74.61%	20.49%	0.67%	4.23%
2000	70.98%	26.76%	0.91%	1.36%
2001	64.14%	32.87%	2.30%	0.69%

36. What percent of your teachers are at the stage Inventions, i.e., teachers leverage technology as a tool to craft new curriculum and new teaching and learning techniques? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	93.10%	2.45%	0.00%	4.45%
2000	94.78%	3.85%	0.00%	1.36%
2000	91.72%	7.13%	0.69%	0.46%

INTEGRATION AND USE

37. What pattern of student technology use best describes the majority of your school's classrooms? Check only one.

DESCRIPTION	1999	2000	2001
Irregular, individual use (i.e., computers are in labs and libraries)	17.37%	12.86%	8.97%
Regular individual use for some students (i.e., as reward for students who complete in-classroom work)	14.92%	14.86%	12.18%
Irregular group use for short collaborative activities and/or regular individual use for most students	48.33%	52.99%	52.64%
Regular individual and group use of technology as communication and research tools as needed (i.e., students leverage technology to engage in authentic project-based learning)	13.14%	17.29%	25.75%
No response	6.24%	2.00%	0.46%

38. What percent of your students use a computer at school daily? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	42.09%	47.22%	5.79%	4.90%
2000	33.26%	55.43%	9.50%	1.81%
2001	23.91%	62.76%	13.10%	0.23%

39. What percent of your teachers use a computer at school daily? Check only one.

RANGE:	0-30%	31-80%	Over 80%	No response
1999	26.95%	53.01%	15.14%	4.90%
2000	16.10%	53.06%	28.57%	2.27%
2001	10.34%	46.90%	42.30%	0.46%

ADMINISTRATIVE

This section was not included on the 1999 Technology Survey.

40. What student information system software do you use for tracking enrollment?

SOFTWARE	2000	2001
OSIRIS	3.80%	3.22%
SASSY	3.80%	3.45%
Win School	7.83%	10.80%
Mac School	24.83%	19.77%
Other	52.57%	60.46%
No response	7.16%	5.06%

41. What software program do you use to track school finance?

SOFTWARE	2000	2001
Lotus	1.08%	0.92%
Peachtree	0.22%	0.92%
Microsoft Excel	19.05%	16.32%
Quickbooks/Quicken	10.17%	13.79%
Quattro	0.22%	16.09%
Other	54.98%	49.66%
No response	14.29%	9.20%

42. Please briefly include here any additional information about your school technology needs which you believe are important for the NH Department of Education to know. Please include any effective and engaging software and on-line resources used in the classroom. You may add an additional page as necessary.

The qualitative responses to question 42 have not been included in this report.