

Truro Central School
Truro, Massachusetts

Long Range Technology Plan
2011-2016

DRAFT April 7, 2011

Introduction

Truro Central School is committed to developing and maintaining a technology program that is integrated into individual classrooms and the school in general. Teachers have the opportunity and are encouraged to use technology to improve teaching and learning, understanding that technology complements successful teaching methods. Students are both motivated and challenged when current, appropriate technology is available to them. The goal is for students to become proficient in using multiple technology tools and to learn how to apply their knowledge to learning other curriculum concepts as defined in the Recommended PK-12 Technology Literacy Standards and Expectations and Science Technology/Engineering Standards.

We will use the following implementation strategies to confirm our commitment as a school/district to a clear vision and progression to an *Advanced Level of Progress* as defined by the Massachusetts School Technology and Readiness (STaR) guidelines. The 2010 version of the STaR guidelines focus on how technology impacts the following four major categories:

- Teaching and Learning
- Educator Preparation and Development
- Administration and Support Services
- Infrastructure for Technology

The Overall Goals and subsequent strategies of the Technology Plan align with both the TCS School Improvement Plan and the Massachusetts Instructional Technology Standards.

School Improvement Plan

The 2011-2012 proposed Truro Central School School Improvement Plan calls for the following activities to address Focus Area IV. (Technology) and its Improvement Objective (to maintain and develop technology instruction and support as an integrated component of a total school program):

1. Update school website
2. Implement the recommendations outlined in the Technology Plan

3. Continue an electronic, online system of daily notice distribution and online report card access for teachers
4. (new) Create real-time access to data by implementing SIF (RTTT)

Massachusetts Instructional Technology Standards

Standard 1. *Demonstrate proficiency in the use of computers and applications as well as an understanding of concepts underlying hardware, software, and connectivity.*

Grades PreK – 4

Students at Truro Central School engage in a variety of developmentally appropriate activities and lessons that allow them to explore technological concepts and skills. This foundation is built using our Computer Lab and its hardware. Yearly upgrades of desktops and peripherals is essential to accommodate rapidly changing technologies and allows for the redistribution of current hardware and peripherals into individual classrooms. Students begin to study correct keyboarding skills in Grade 3. Programs in the Microsoft Office package are utilized in a variety of ways that help students gain proficient knowledge in basic skills that will assist them with subsequent higher order concepts in Grades 5 and 6. The ability to demonstrate and engage students in the introduction of skills is greatly enhanced through the use of SMARTBoards and related peripherals.

Grades 5 and 6

Students continue to hone their skills and acquire a more advanced and sophisticated understanding of technology through their ability to demonstrate what they know. Knowledge and use of additional peripheral devices as well as platforms is broadened during fifth and sixth grades. (Fifth and sixth grade currently use a Mac platform in the classroom through wireless laptops.) Researching conversion to a wireless school and addition of a cart of laptops or tablets, will allow teachers in Grades 3 and 4 to prepare students for the independent work that is expected in Grades 5 and 6.

Standard 2. *Demonstrate responsible use of technology and an understanding of ethics and safety issues in using electronic media.*

Grades PreK – 4

Truro Central School students are introduced to the rules for responsible use of computers, ethics and respect for property. Developmentally appropriate, teacher-guided research is introduced both using the SmartBoard for large group instruction as well as in the Computer Lab for individual projects. Frequent, if not daily use of computers is practiced at this grade level. A week-long, intensive unit on Internet Safety is taught during September with information disseminated to families. Review of this

material is presented throughout the school year. Addition of a portable cart for use in lower grades will add to student accessibility.

Grades 5 and 6

Use of media and technology is increased to include multiple sessions on a daily basis. Students at these grade levels are given assignments that require more independent research using the Internet and as such, are given more specific and rigorous instruction regarding Internet Safety and adherence to the school's Acceptable Use Policy. It is during Grades 4 -6 that students begin to embrace technology as a necessary tool in our society and are given monitored freedom to utilize it. Both the Computer Lab and classroom computer stations and wireless hardware play an integral part in this equation.

Standard 3. *Demonstrate the ability to use technology for research, critical thinking, problem solving, decision making, communication, collaboration, creativity, and innovation.*

School-wide initiatives include: School-wide WiFi and research and conversion to Google Apps for Education.

Grades PreK – 4

After receiving instruction regarding safe use of web-based technologies, Truro Central School students are given the opportunity to explore their world using a variety of media. Computers are used for research; to practice standards-based concepts in all academic areas; and to collaborate with other students and teachers using our school network. Continuous upgrades in the Computer Lab as well as the continued development of a wireless school will result in more frequent and higher quality instruction, process of learning and eventual product.

Grades 5 and 6

Further development of initial skills will continue in Grades 5 and 6. Use of a fully wireless classroom in Grades 5 and 6, and eventually partial wireless classroom capability in other grades will prepare students for the higher expectations in Grade 6, Students will be able to successfully find, evaluate and process information. Hardware and software upgrades outlined in our Technology Plan will provide students and teachers with the necessary tools to meet the Technology Literacy Standards and Expectations, especially Standard 3, which requires that students integrate skills acquired in Standards 1 and 2 to effectively solve problems and communicate with others.

Note: The DESE provides Local Technology Plan Guidelines for schools to utilize. Based upon these guidelines, as well as the Massachusetts Technology and Readiness Chart (STAR Chart), *the Technology Committee would like to make the following recommendations beginning in Fall 2011 to the TCS School Committee as we work to achieve an “ADVANCED TECHNOLOGY LEVEL” at our school.*

- TCS as a DUAL PLATFORM school. Currently, Lab and classroom computers are PCs. Grades 5 and 6 utilize the mac platform. How can we best combine the two platforms, knowing that students benefit from exposure to and proficiency in both?

Work to develop the work capacity of the Computer Lab by replacing current PCs with mac desktops running on a DUAL BOOT system. Total replacement would occur over a three year period with replacements occurring thereafter, redistributing replacements into classrooms.

- Looking ahead to Fall 2012 and after...classes will be larger (up to 25 students). This will affect mac laptop counts in grades 5 and 6. Research utilizing tablets or notebooks as an affordable way to continue to take advantage of wireless capability. Major projects would be completed in Computer Lab.
- Research possibility of “wireless school”—Wi-Fi. Use for laptops, future tablets/notebooks and desktops.
- Research wireless cart for use in classrooms on a “sign-out” basis. Laptops vs. tablets/notebooks. PC vs. mac. Which grades would use?
- Research and implement using Google Apps for Education throughout TCS.
- Conduct an audit of the gymnasium sound system and make adjustments as recommended, resulting in an optimal audio visual experience for performances, assemblies and other programs.
- Update TCS website to a more user-friendly version. Include ability to submit family emails for paperless messages home, surveys, etc.

Our focus will be on developing the “larger picture” with peripheral requests to be made by individual teachers as needed.

**Truro Central School
5 Year Technology Plan
2011-2016**

Approved: DRAFT

PRIMARY GOALS

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Computers/ Hardware	<ul style="list-style-type: none"> Upgrade computers •LAB=15 mac desktops, DUAL BOOT •LAB=teacher computer mac DUAL BOOT •redistribute replaced to classrooms •7 macbooks=grade 5 •Research options for portable cart (laptops vs. tablets) •Research to prepare 5/6 classrooms for large classes (1:1 laptops/tablets) beginning 2012-13 	<ul style="list-style-type: none"> Upgrade computers •LAB=5 mac desktops DUAL BOOT •redistribute replaced to classrooms •Purchase portable cart based on research 	<ul style="list-style-type: none"> Upgrade computers •LAB=5 mac desktops DUAL BOOT •redistribute replaced to classrooms 	<ul style="list-style-type: none"> Upgrade computers •LAB=5 •redistribute replaced to classrooms 	<ul style="list-style-type: none"> Upgrade computers •LAB=5 •redistribute replaced to classrooms •LAB= teacher computer
Software	<ul style="list-style-type: none"> •begin Windows 7=LAB •research Office 2010 upgrade •research DUAL BOOT system for Lab (Spring 2011) 	<ul style="list-style-type: none"> •finish Windows7 in classrooms 			
Classroom presentation	<ul style="list-style-type: none"> •SMARTBoard replacement as needed 	<ul style="list-style-type: none"> •SMARTBoard replacement as needed 	<ul style="list-style-type: none"> •SMARTBoard replacement as needed 	<ul style="list-style-type: none"> •SMARTBoard replacement as needed 	<ul style="list-style-type: none"> •SMARTBoard replacement as needed
Wireless school	<ul style="list-style-type: none"> •research all-school Wi-Fi 	<ul style="list-style-type: none"> •install all-school Wi-Fi if possible 			
Miscellaneous	<ul style="list-style-type: none"> •New school website •Research ability to edit website from home • GOOGLE Apps for Education •Gymnasium Sound System/AV=professional audit & training •upgrade classroom phones with long distance 	<ul style="list-style-type: none"> •update school website as needed •update uses for GOOGLE Apps for Education •server upgrade if needed after change to GOOGLE Apps for Ed. 	<ul style="list-style-type: none"> •update school website as needed 	<ul style="list-style-type: none"> •update school website as needed 	<ul style="list-style-type: none"> •update school website as needed

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PROFESSIONAL DEVELOPMENT

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Teachers	<ul style="list-style-type: none"> • New website training • MassCUE Conference (2) • Technology Team (3-4) • Technology PLC • Windows 7 training • On-line Mentoring (RTTT) • SIF Training • GOOGLE Apps for Education • Gymnasium Sound System training (2-3) 	<ul style="list-style-type: none"> • MassCUE Conference (2) • Technology Team (3-4) • Technology PLC • GOOGLE Apps for Education 	<ul style="list-style-type: none"> • MassCUE Conference (2) • Technology Team (3-4) • Technology PLC 	<ul style="list-style-type: none"> • MassCUE Conference (2) • Technology Team (3-4) • Technology PLC 	<ul style="list-style-type: none"> • MassCUE Conference (2) • Technology Team (3-4) • Technology PLC
SPED	<ul style="list-style-type: none"> • New website training • MassCUE Conference (1-2) • Technology Team (1) • Technology PLC • Windows 7 training • On-line Mentoring (RTTT) • SIF Training • GOOGLE Apps for Education 	<ul style="list-style-type: none"> • MassCUE Conference (1-2) • Technology Team (1) • Technology PLC 	<ul style="list-style-type: none"> • MassCUE Conference (1-2) • Technology Team (1) • Technology PLC 	<ul style="list-style-type: none"> • MassCUE Conference (1-2) • Technology Team (1) • Technology PLC 	<ul style="list-style-type: none"> • MassCUE Conference (1-2) • Technology Team (1) • Technology PLC
Administration	<ul style="list-style-type: none"> • New website training • MassCUE Conference (1?) • Technology Team (1) • Windows 7 training • SIF Training • GOOGLE Apps for Education • Gymnasium Sound System training (2-3) 	<ul style="list-style-type: none"> • MassCUE Conference (1?) • Technology Team (1) 			

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NEEDS ASSESSMENT

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Teachers	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey
SPED	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey
Administration	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey 	<ul style="list-style-type: none"> • Online survey • Technology Plan update survey
Families and Students	<ul style="list-style-type: none"> • New website • Paperless family notification (phase in with paper copies sent as well) • Online Technology survey 	<ul style="list-style-type: none"> • New website • Paperless family notification cont. • Online Technology survey 	<ul style="list-style-type: none"> • Paperless family notification complete 		

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BUDGET

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Capital Improvement (Town of Truro)					
REAPS Grant					
Town approved Budget					
Other-Grants					
Total					

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EVALUATION

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
	Technology Team meets monthly as needed	Technology Team monthly as needed	Technology Team meets monthly as needed	Technology Team meets monthly as needed	Technology Team meets monthly as needed
	Review progress of implementation of Technology Plan with School Council and School Committee (revise as needed)	Review progress of implementation of Technology Plan with School Council and School Committee (revise as needed)	Review progress of implementation of Technology Plan with School Council and School Committee (revise as needed)	Review progress of implementation of Technology Plan with School Council and School Committee (revise as needed)	Review progress of implementation of Technology Plan with School Council and School Committee (revise as needed)
	Administer end of year survey	Administer end of year survey	Administer end of year survey	Administer end of year survey	Administer end of year survey