

MONMOUTH REGIONAL
HIGH SCHOOL








TECHNOLOGY PLAN

Ver. 9.0

JULY 1, 2013 THROUGH JUNE 30, 2016

APPROVED:
MRHS BOARD OF EDUCATION
NOVEMBER 18, 1997
Revised May 7, 2013

I. STAKEHOLDERS

Stakeholder Table		
Title	Name	Signature
Superintendent	Charles R. Ford Jr.	
Principal	Andrew Teeple	
Technology Director	Michael Provenzano	
Curriculum Director/curriculum committee member <i>District Test Coordinator</i>	Gayle Fitzmaier	
Teacher	Karen Kampf	
Library Media Specialist	Christine Anderson	
Guidance	Joe Modoni	
Professional Development	Lori Padgett	

II. EXECUTIVE SUMMARY

MISSION STATEMENT

Monmouth Regional High School utilizes technology to provide the means to focus on student-centered learning, to meet the needs of different learning styles and cultural diversity, and to prepare students for the demands of life in the twenty-first century. Technology is not a singular course or subject; it is the integration of automated tasks allowing students and staff to achieve a specific goal within the current core curriculum content standards and frameworks.

VISION

Our vision is to develop an efficient, cost-effective plan for the continued use of the latest technology in all learning environments and to incorporate technology into the entire educational program to:

- ◆ Provide access to technology for all members of the school community
- ◆ Develop self-directed, self-reliant learners who take advantage of technology to access, assess and utilize information
- ◆ Utilize technology to address the individual needs of all students
- ◆ Prepare students to compete for employment in a job market that is increasingly technological
- ◆ Provide students with the skills to use technology
- ◆ Provide students with the technology to communicate effectively both locally and globally
- ◆ Enhance the learning environment
- ◆ Create a viable, secure, reliable and renewable network that connects all members of the school community to one another and to sources inside and outside the school
- ◆ Provide access to local and global information sources including but not limited to the Internet,
- ◆ Provide ongoing staff development in technology
- ◆ Provide efficient and effective management of administrative and student data
- ◆ Explore, develop and implement current and future technologies
 - Labs, where necessary for group work
 - Establish whole class notebook carts
 - Maintain upgradeable compatibility
 - Provide E mail for faculty use
 - Develop computer skills transferable to college and the job market
 - Employ and develop a more computer literate staff
 - View computers as an instructional aid - not in place of quality teaching
 - Utilize CBL's (Computer Based Labs) and Graphing Calculators in Science and Math

I. TECHNOLOGY INVENTORY

1. Technology equipment needed to improve student academic achievement is constantly evaluated as described below.
 - A. Assistive technology is provided and evaluated on an as needed basis, devices include, large print keyboards, changing the computer operating system settings and other devices as needed.
 - B. Networking capacity is monitored on a daily basis; this allows our technology staff to be proactive in identifying, isolating and rectifying network problems before they affect a large number of users.
 - C. Our filtering method is an appliance based solution; the vendor constantly updates the software to account for new Internet sites that are deemed inappropriate. Our technology staff has the ability to adjust the filter; this allows us the ability to classify sites as appropriate or inappropriate.
 - D. Software used for curricular support is initially evaluated by the educator who then forwards the request to the technology office. The technology office checks the software specifications to ensure that the software will operate correctly in our networked environment. The request is then forwarded to administration for final approval, purchased and installed.
 - E. Technology maintenance and support is provided by two onsite computer technicians and their supervisor. Vendor provided help desks and online resources provide additional sources of technical information to assist our technical staff in resolving problems in a timely manner. The district has established a help desk database that keeps track of service calls and equipment inventory.
 - F. Telecommunications is constantly evaluated for capacity, as well as equipment performance. Voice mail is a necessity for today's educator for parental contact, voice mail storage capacity is constantly evaluated.

2. Our current technology inventory includes:
 - A. 200 computer workstations
 - B. 140 Staff Notebook Computers
 - C. 5 Dedicated Notebook carts (110 devices total)
 - D. 140 Thin client computers
 - E. 18 Dell servers
 - F. 2 LTO Auto load tape drives
 - G. 30TB Netapp SAN
 - H. 20 HP Procurve Network Switches
 - I. 40KV APC Symmetra Power Array (Datacenter Battery Backup)
 - J. 45 HP Printers
 - K. Vodavi XTS Telephone System w/ Voice Mail
 - L. Meru 802.11N Wireless Infrastructure

II. NEEDS ASSESSMENT

The process that was used to identify the necessary telecommunication services, hardware, and software to improve education is an ongoing effort. Curriculum as well as other operational needs drive technology purchases.

Hardware replacement schedules have been developed and are used to ensure that the students and staff have modern up to date technology at their disposal.

Software maintenance agreements ensure that the latest software is available for installation. Educators from time to time suggest software titles that they have researched that would be a proper fit for inclusion in their curriculum. The software is checked for compatibility, purchased and installed on the district computer network.

Telecommunication services are evaluated based on present and future needs. Usage reports are used to ensure that there are enough telephone lines into and out of the building to handle the day to day needs.

III. THREE YEAR GOALS

Review of research shows that teachers need to feel comfortable with technology in order for it to filter into the curriculum and teachers' lessons. In order to be able to promote curricula and teaching strategies that integrate technology effectively into curricula and instruction, Monmouth Regional High School's goal has been to provide teachers with in-house hands-on training that addresses the needs of teachers. These needs are determined each year by teacher input.

A. History, Evaluation and Unexpected Outcomes or Benefits

In order to continue to develop a more technology literate staff, the following goals were created to reinforce technology skills.

2010-2013 Goal 1: To provide continued training on Genesis throughout the school year to ensure staff is proficient.

Evaluation: Training workshops were held on a continual basis. Staff members were taught in small groups or individual one on one sessions.

2010-2013 Goal 2: To continue to provide ongoing professional development to staff on the use of educational technology through mini workshops.

Evaluation: Over the three year period, mini workshops were held on topics such as Microsoft Office, ClassLink Instructional Desktop and Safari Montage.

2010-2013 Goal 3: New or revised curriculum will continue to infuse technology into the learning process.

Evaluation: the five year curriculum plan has been on target and all submissions have infused technology when appropriate. We are continuing this goal as part of the State mandated curriculum process.

B. Goals for 2013-2016

In an effort to ensure a technology rich learning environment exists at Monmouth Regional, the following goals and objectives have been established.

- 2013-2016 Goal 1: Evaluate district's telecommunication system, Internet service to ensure effective communication and online learning.

- 2013-2016 Goal 2: Evaluate the district's information technology, including software, servers, desktop computers, notebook computers, projectors, interactive whiteboards, etc. and develop realistic replacement timelines.

- 2013-2016 Goal 3: Evaluate educational technology in the classroom including assistive technologies where needed, to ensure that our staff have the tools they need to deliver a technology rich learning environment.

- 2013-2016 Goal 4: Ensure that the district has the equipment and infrastructure in place to support effective PARCC testing.

**IV. THREE YEAR IMPLEMENTATION AND STRATEGIES TABLES
(JULY 2013 – JUNE 2016)**

A.

Three-Year Technology Implementation Activity Table				
District Goal and Objective	Strategy/Activity	Timeline	Person Responsible	Documentation
1	Evaluate district's telecommunication system, Internet service to ensure effective communication and online learning.	Ongoing	Technology Staff	Usage Reports, Capacity Reports and maintenance logs.
2	Perform an evaluation of the district's information technology. This includes software, servers, desktop computers, notebook computers, projectors, interactive whiteboards, etc. Develop replacement and or upgrade timelines.	Ongoing	Technology Staff	Purchase logs, maintenance logs
3	Evaluate educational technology in the classroom including assistive technologies to ensure that our staff has to tools they need to deliver a technology rich learning environment.	Ongoing	Technology Staff	Staff survey results, Equipment logs
4	Ensure that the district has the equipment and infrastructure in place to support effective PARCC testing.	2013-2015	Technology Staff	Equipment purchase orders. Infrastructure testing logs.

Goal 1. The telecommunication system is the nerve center of a technology rich learning environment. The technology staff is expected to monitor and maintain this extensive network of telephones, network switches, and wireless access points. Analyzing usage patterns as well as bandwidth usage logs will help drive decisions regarding purchasing additional capacity.

Goal 2. Technology is ever changing and evolving. By evaluating our existing information technology and developing realistic upgrade and replacement schedules will insure that technology is refreshed on a regular basis. Maintenance logs as well as the age of the device will drive equipment replacement decisions. Software will need to be updated on a regular basis to remain relevant to current educational standards.

Goal 3. Technology in the classroom is constantly evolving. Today's educator has access to a plethora of technology equipment as well as online resources to aid in providing technology infused curriculum. Whole class notebook carts, Activboards, Qwizdom interactive student response devices and iPads are just an example of the type of equipment that is available. Our staff is surveyed to determine the equipment, software or online service would be a good fit for our district. Analyzing equipment usage patterns determine replacement schedules as well as need for additional devices.

Goal 4. With the announcement of PARCC testing, the district decided to take a proactive stance when it came to evaluating the technology needed to support effective online assessments. Based on PARCC's technology guidelines, as well as our current inventory it was determined that additional computers will be needed to ensure completion of the assessments within the twenty day allotment. Internal network measurements as well as Internet capacity are constantly being evaluated, recommendations for upgrading networking equipment and bandwidth will be made based on the test results.

V. PROFESSIONAL DEVELOPMENT

- A. Ongoing sustained professional development opportunities for the 2013 – 2016 school year as they relate to infusion of technology into the curricular process include the use of Teacher and whole class laptops, Qwizdom interactive student response devices, Genesis parent portal, interactive white boards, Zumu web design, social bookmarking and cloud computing. The technology department supports the professional staff by providing training on the effective use of classroom technology and provides in class support where needed. Professional staff are also being trained in preparation for online teacher evaluations
- B. Professional development opportunities that exist for the technology office staff include online vendor sponsored webinars, instructor lead training sessions and conferences.
- C. Professional development is provided to all staff on application of assistive technologies as needed, as per the individual student's IEP.

VI. EVALUATION PLAN

This plan is a living document, and as such to be useful it must be reassessed regularly. The ongoing exercise of examining where we are versus where we want to be versus where we want to go keeps our technology plan focused, relevant and useful long after most static five-year plans cease to be pertinent.

The evaluation plan will include the following:

- Documentation of teacher/administrator training will be kept.
- Review of HSPA /PARCC scores in mathematics and language/arts literacy.
- List of new technology brought into the building.
- List of curriculum that have been revised to incorporate activities that infuse the use of technology.

Funding Plan Table (2013-2014)

MONMOUTH REGIONAL HIGH SCHOOL				
Three-Year Technology Plan Anticipated Funding Table (2013-2014)				
ITEM	FEDERAL FUNDING	STATE FUNDING	LOCAL FUNDING	MISC. (e.g. Donations, Grants)
Digital curricula (see NIMAS in the HELP section)				
Print media needed to achieve goals				
Technology Equipment			168,000	
Network				
Capacity				
Filtering				
Software	20,000		178,772	
Maintenance			112,760	
Upgrades				
Policy and Plans			500	
Other services PESKOE GRANT				3,000

Funding Plan Table (2014-2015)

MONMOUTH REGIONAL HIGH SCHOOL				
Three-Year Technology Plan Projected Funding Table (2014-2015)				
ITEM	FEDERAL FUNDING	STATE FUNDING	LOCAL FUNDING	MISC. (e.g. Donations, Grants)
Digital curricula (see NIMAS in the HELP section)				
Print media needed to achieve goals				
Technology Equipment				
Network				
Capacity				
Filtering				
Software	15,000		178,772	
Maintenance			100,000	
Upgrades				
Policy and Plans			500	
Other services PESKOE GRANT				3,000

Funding Plan Table (2015-2016)

MONMOUTH REGIONAL HIGH SCHOOL				
Three-Year Technology Plan Projected Funding Table (2015-2016)				
ITEM	FEDERAL FUNDING	STATE FUNDING	LOCAL FUNDING	MISC. (e.g. Donations, Grants)
Digital curricula (see NIMAS in the HELP section)				
Print media needed to achieve goals				
Technology Equipment				
Network				
Capacity				
Filtering				
Software	15,000		150,000	
Maintenance			100,000	
Upgrades				
Policy and Plans			500	
Other services PESKOE GRANT				3,000

ACKNOWLEDGMENTS

Members of the Board of Education

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