# North Wildwood School District

# Technology Plan

# 2013-2016

Approved by the North Wildwood Board of Education, April 29, 2013

# North Wildwood School District
# Technology Plan

## July 1, 2013 through June 30, 2016

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**North Wildwood School District Three-Year Plan**
**Inventory and Services: North Wildwood**
**Creating a Digital Learning Environment to transcend our students with the opportunity to educate, innovate, assess and recalibrate**

1.  **Technology Inventory**

The North Wildwood School District is committed to providing access to educational technologies in order to increase maximum student achievement through the use of desktops, laptops, iPads, Smart Boards, and Light SPEED sound augmentation hardware in classrooms, computer labs, and the media center. The district has set goals to increase its networking capability to one gigabit connectivity throughout the school, while maintaining a content filtering system, Sonic Wall, which provides safe, Internet access. This will meet the technology requirement for PARCC. Current curricular software includes Kid Biz, IXL, Think Central, Spelling City, Study Island, Kid Pix, Kidspiration, Lexia, Brain Pop, Microsoft Office, and related educational iPad apps. Administration, Child Study Team, and staff members employ Realtime student management software. The Media Center utilizes Follette, World book Encyclopedia, and Pro Quest software.

The district maintains a technology support contract with EIRC for network and engineering purposes. North Wildwood plans to implement a district wide wireless system, with "N" rating to improve mobile device connectivity. Current telecommunications services include a classroom telephone-intercom system, Global Connect Messaging system, and the school website ([www.mmace.com](www.mmace.com)) which provides students and the public with educational information, such as school calendar, homework assignments, emergency closings, library access to circulation and information services, and community offerings.

The North Wildwood School continues to seek new technology opportunities and improve its technology infrastructure to meet the current and future demands of instruction and assessment.

| Three-Year Educational Technology Plan Inventory Table | | | |
|---|---|---|---|
| **Area of Need** | **Describe for E-rate funded year 1 2013-2014** | **Describe for E-rate funded year 2 2014-2015** | **Describe for E-rate funded year 3 2015-2016** |
| Technology Equipment including assistive technologies | **Purchase Devices so that 10% of our students can be Assessed Simultaneously**<br><br>**Devices should be equipped with 6hr batteries, mice and physical keyboard** | **Purge Devices over 5 years old**<br><br>**Replace 15% of our total Devices** | **Purge Devices over 5 years old**<br><br>**Replace 15% of our total Devices** |
| Networking Capacity | **Upgrade current switches to at least 1G.**<br><br>**Switch Upgrades all to POE (Power over Ethernet)**<br><br>**Maintain 1G Fiber-Optic backbone between MDF and IDF.**<br><br>**Install "N" rated wireless solution for school wide access.** | **Maintain POE core switches at 1G connectivity.**<br><br>**Install "N" rated wireless solution for exterior school access needs.** | **Develop, replace and upgrade networking equipment on an annual basis to stay ahead of demand.** |
| Filtering Method | **Stay in accordance with the FCC and District Policy.**<br><br>**Develop Responsible Digital Citizens** | **Stay in accordance with the FCC and District Policy.**<br><br>**Develop Responsible Digital Citizens** | **Stay in accordance with the FCC and District Policy.**<br><br>**Develop Responsible Digital Citizens** |

| Software used for curricular support and filtering | **Sonic Wall for content filtering, and NWEA assessment software (MAPS)** | **Increase the frequency of Computerized Assessment for all our students; Sonic Wall** | **Use Assessments to evaluate the impact of Curriculum changes in the classroom; Sonic Wall** |
|---|---|---|---|
| Technical Support and maintenance | **Engage a Network Engineer to DESIGN a network that is functional, scalable, manageable and exceeds our current needs (EIRC)** | **Engage a Network Engineer to IMPLEMENT a network that is functional, scalable, manageable and exceed our current needs** | **Engage a Network Engineer to SUPPORT and GROW the network that is functional, scalable, manageable and exceed our current needs** |
| Telecommunications equipment and services | **Renegotiate Internet Transport Contracts to Scalable Options**<br><br>**Maximize Bandwidth capacity with current contracts** | **Increase Bandwidth to 100 mbps for every 100 students** | **Increase capacity as needed to perpetuate Student Achievement** |
| Other Services: | **Provide proper accommodations for Digital Learning Centers for Assessment; Continued Cyber-Bullying awareness for staff and students, SRI-ETTC membership, and web-based programs for curricular-based instruction.** | **Provide proper accommodations for Digital Learning Centers for Assessment; Continued Cyber-Bullying awareness for staff and students, SRI-ETTC membership, and web-based programs for curricular-based instruction.** | **Provide proper accommodations for Digital Learning Centers for Assessment; Continued Cyber-Bullying awareness for staff and students, SRI-ETTC membership, and web-based programs for curricular-based instruction.** |

## 2. Needs Assessment

The Needs Assessment process used by the North Wildwood School District to identify the necessary telecommunication services, hardware, software and other services to improve education is multi-faceted.  On the technical level, attendance at NJASA Techspo, completion of PARCC webinars, participation in the Atlantic County Technology Round Table, and District membership of SRI-ETTC provided information to create a plan for future school technology infrastructure needs.

Staff surveys identified professional development needs for present classroom technology, integrating technology into the curriculum, as well as recommendations for future technology acquisitions. Identified staff needs have currently resulted in the proliferation of Smart Boards in the majority of the classrooms, the purchase of new laptop carts, and the addition of IPads to the Media Center and lower grade classrooms. The surveys have also indicated that our Internet capability needs to be upgraded to meet new State testing requirements and provide consistent Internet availability for classroom instruction.

The Professional Development and Technology Committees continue to use staff surveys to plan and implement identified needs, as well as future hardware and software purchases to support NJ Common Core Standards. The planned renovation of the Media Center, upcoming installation of school-wide wireless access, future purchase of additional staff/student Ipads, and the replacement of obsolete laptop carts are examples of district responses to identified needs. The North Wildwood Administration and Board of Education appreciates, considers, and acts on staff input when approved.

**3. Three-Year Goals**

1. The needs assessment results show a need for: Professional Development of teachers and administrators to utilize and increase the use of technological tools and resources in the subject areas of Math and Language Arts.

    a. Goal: To enable all students to acquire the mathematical skills, understandings, and attitudes that they will need to be successful in their careers and daily lives by June 2016.

    b. Goal: All students will understand and apply knowledge of sounds, letters and words in written English to become independent and fluent readers, and will read a variety of materials and texts with fluency and comprehension, and students will write in clear, concise, and organized language by June, 2016.

    c. Goal: Grades 2 – 5 will acquire keyboarding instruction that is age and curricular appropriate in preparation for PARCC requirements and support of assessment and curricular web subscriptions.

2. The needs assessment results show a need for: Instructional staff to integrate educational technology as an integral component of their instructional process.

    a. Networking capacity will be increased to 1 Gigabit by September 2013 with the necessary filtering to fully support teachers and administrators without interruption or delay when using the Internet simultaneously.

    b. School-Wide wireless access with "N" rating will be available October 1, 2013 to fully support teachers, administrators, and staff mobile devices without delay or interruption.

    c. Teacher workshops will be available that will focus specifically on strategies on how to transparently use educational technology throughout a lesson. (Examples: iPad, Mac Book, and Smart Board training; mobile student attendance, digital daily announcements / grading and remote Smart Board control)

**4. Three-Year Implementation and Strategies Table**

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**North Wildwood School District**
**Three-Year Educational Technology Plan Checklist**

**Three-Year Implementation Activity Table**

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## Three-Year Technology Implementation Activity Table

| District Goal and Objective | Strategy/Activity | Timeline | Person Responsible | Documentation |
|---|---|---|---|---|
| 1 a. | Purchase of new math series for 6$^{th}$, 7$^{th}$, and 8$^{th}$ grades, which will include interactive components for Smartboard and planned Ipad purchase. The series will also include online support and review activities. | July, 2013-<br><br>June, 2016 | Instructional staff and Administrators | School purchase orders, MMS webpage, Teacher lesson plans |
| 1 b. | Planned increase in IPad integration in lower grades specifically for digital support of phonics, reading, and language arts. | July, 2013-<br><br>June, 2016 | Instructional staff and Administrators | School purchase orders, Teacher lesson plans, IPad App Technology Committee |
| 1 c. | Creation of keyboarding classes for grades 2$^{nd}$ – 5$^{th}$ in the two current computer labs and planned mobile laptop cart. | July, 2013-<br><br>June, 2016 | Instructional staff and Administrators | School purchase orders, Teacher lesson plans, School Tech Committee |
| 2 a. | Network switches and cabling will be replaced to meet PARCC requirements. | July, 2013-<br><br>June, 2016 | BOE and Technology Coordinator | BOE approval, School purchase orders. |
| 2 b. | School-wide wireless system will be installed and meet PARCC requirements for bandwidth for planned mobile device purchases | July, 2013-<br><br>June, 2016 | BOE and Technology Coordinator | BOE approval, School purchase orders. |

| 2 c. | Planned professional development for teacher workshops in educational and assistive technology integration and use of current and future technology through increased teacher collaboration. | July, 2013- June, 2016 | BOE, School Administration, Professional Development Committed, | BOE approval Scheduled Professional Development Days Teacher observations and lesson plans |
|------|------|------|------|------|

## 5. Professional Development Strategies

| Educators' Proficiency/ Identified Need | Planned Professional Development | Support |
|------|------|------|
| 5 a. Technology applications to improve the instructional process to increase student state assessment performance in Math and Language Arts /Literacy | Two of the three required in-services days of professional learning in the district will be devoted to addressing technology use and integration to meet the new Common Core Standards and 21st Century Skills. Collaboration with neighboring districts at the county-wide-in-service, content area collaboration with neighboring districts, and opportunities for content area development for grade levels and special areas with approval of the Superintendent will be implemented. Tuition and registration fee money is available for staff need Professional development will include workshops on the use of Macbooks, iPads, Smartboards, the new math series, and purchased software. | Content area teacher collaboration during common planning. School Technology Coordinator.  Online webinars. Vendor software / hardware workshops. |

| 5 a. Keyboarding Skills and Writing Skills for Language Arts Literacy for compliance with Common Core Standards and 21<sup>st</sup> Century Skills | Professional development will include curriculum revisions, PLC summary reports, logs of meeting events and times, and assessment data from the Language Arts Literacy software that is used presently and current / future State assessments. | Content area teacher collaboration during common planning concerning Common Core Curriculum Standards. School Technology Coordinator. Online webinars. Vendor software / hardware workshops. |
|---|---|---|

**5 b.** The district has determined to continue to identify the necessary telecommunication services, hardware, software and other services to improve education in the district. In order to assist our School Technology Coordinator is provided attendance at NJASA Techspo, Atlantic County Technology Round Table meetings, and SRI-ETTC membership along with specific technology training workshops. Support is demonstrated through Professional Development days that are allowed for attendance at meetings and training workshops. The district has engaged an EIRC contract for network and engineering support.

**5 c.** Staff surveys have indicated a need to have and be trained with assistive technologies to improve math and language arts instructional strategies to increase student achievement. A goal is by 2015 all classrooms will have the Light SPEED sound augmentation systems installed. Macbook and IPad devices have assistive technology capabilities. Planned Apple in-services dealing with specific assistive technology features are scheduled. Online tutorials, the school Technology Coordinator, the Technology Committee, and teacher collaboration supports are available.

## 6. Evaluation Plan

| Educational Technology Plan Evaluation Narrative | |
|---|---|
| **a. Telecommunications services, hardware, software, and other services are improving education.** | Network wired and wireless infrastructure for connectivity has been increased to support simultaneous Internet activity by the student body. This will provide for our web-based curricular subscriptions and PARCC assessment. An integrated phone system, which includes the Global Connect broadcasting system, provides parental support for homework assignments and emergency information. Curricular software used in computer labs and mobile devices to meet NJ Common Core Standards will improve student achievement. School technology support requests concerning reliability of infrastructure and teacher lesson plans, and teacher observations, implementing hardware and software provide district with a regular assessment of educational technology effectiveness. |

| | |
|---|---|
| **b. Effective integration of technology is enabling students to meet challenging state academic needs.** | The K-4 Technology Integration Enrichment Program infuses curriculum-centered technology activities into grade-level classroom teacher's lesson plans. Smart boards, iPads and laptops provide access to instructional, assessment and productivity software. Educational effectiveness will be assessed through report cards, software assessment data, State testing, student digital projects, staff surveys, and end-of-the-year reporting. |
| **c. The LEA is meeting the identified goals in the educational technology plan.** | The Board of Education and Administration are providing all the necessary hardware, software, and technology integration workshops for staff in order to meet the goals of the educational technology plan, which includes the School Technology Committee, and the establishment of both the Technology Education and Educational Technology programs. These components are evaluated through Board of Education approval.  Teacher lesson plans, teacher observations, curriculum approval, staff surveys, assessment data from software and State tests, and committee reports also provide information on the Technology Plan's effectiveness. |

## 7. Mid-Course Corrections

Monthly staff meetings that include a technology update provide staff and Administration input opportunities to report current classroom technology status, problems, or the need for a review or upgrade of hardware and software. The school Technology Committee reviews this input, evaluates it, and prioritizes a list of recommendations that are presented to the school Technology Administrator who then meets with the District Superintendent and Business Administrator and finally the Board of Education. Results are digitally communicated with staff members from the District School Administrator.

## 8. Funding Plan

| Three-Year Technology Plan Anticipated Funding Table: 2013-2016 | | | |
|---|---|---|---|
| **Item** | **2013-2014** | **2014-2015** | **2015-2016** |
| **Equipment, Supplies, Upgrades*** | $25,000 | $25,000 | $25,000 |
| **Network*** | $15,000 | $15,000 | $15,000 |
| **Network/Equipment Maintenance*** | $7,500 | $7,500 | $7,500 |
| **Software*** | $8,000 | $8,000 | $8,000 |
| **Other Services and Software Support, Professional Development** | $9,000 | $9,000 | $9,000 |

**\*Components of Local Share**

# North Wildwood Board Of Education

*1201 Atlantic Avenue*
*North Wildwood, N.J. 08260*
*(609) 729-4649*

**The following is a certified excerpt from the minutes of the meeting of the North Wildwood Board of Education that was held at 6 p.m. on April 29th, 2013 in room 206 at the Margaret Mace School:**

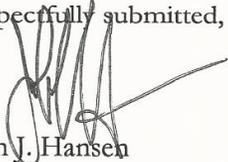to approve the 2013-2016 North Wildwood School District Technology Plan.

## Motion

**Motion: Zampirri**                **Second: Flanagan**

**Vote Yes:**

Michael Brown, Sr.
James Perloff
Scott McCracken
Charles Burns
Ronald Golden
Gerald Flanagan
Via Zampirri
David MacDonald

Respectfully submitted,

John J. Hansen
School Business Administrator/Board Secretary

April 30th, 2013

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