New Providence School District Three-Year Technology Plan
2010 - 2013

Stakeholder Table		
Title	**Name**	**Signature**
Superintendent of Schools	David M. Miceli, Ed. D.	
Principal: Middle School	Gina M. Hansen	
Director: Curriculum, Instruction, and Supervision	Sandra M. Searing	
Department Head: Technology	Sandra Andersen	
Manager: Information Systems	Alex Menard	
P/C Network Specialist	Robert Belliveau	
Teacher	Jonathan Keaney	
Special Education Teacher	Diane Galfy	
Library Media Specialist	Judy Gallagher	
Guidance	Scott Maciag	
Board Member	Nancy Opperthauser	
Parent	Rosalie DiNardo	
Student		
Community Member		

Business Sector Representative		
Others		

Narrative (explain if other members were part of this discussion or if less than the required nine member were reported above):

II. Executive Summary

Mission Statement

In partnership with students, parents, and community, the mission of the New Providence School District is to educate all students to meet high academic standards and to prepare them to be responsible citizens in the dynamic global society of the 21st Century.

Executive Statement

The New Providence School District is the local educational agency for the Borough of New Providence, located in Union County, New Jersey. The community, which is 3.70 square miles in area, has a population of 11,905. There are two K-6 elementary schools in the district and one middle school (grades seven and eight) sharing a facility with the high school (grades nine through twelve). New Providence High School has been ranked among the top ten public high schools in New Jersey and first in Union County, by both the Star Ledger and New Jersey Monthly Magazine.

The New Providence School District has established goals and objectives which meet the requirements of the Core Curriculum Content Standards for the State of New Jersey and has incorporated the use of technology as a tool for intellectual, social and skill development into the instructional process across all disciplines and grade levels. The district recognizes technological literacy as an essential component of communication skills and is committed to providing all of its students with opportunities to develop the competencies which will enable them to utilize technology in solving real-world problems as informed and productive members of an increasingly global society.

Our Technology Plan is reviewed yearly and updated as is necessary for the purposes of incorporating new ideas, methods, technology, goals, assessments, etc.

III. Technology Overview

A. Technology

1. The following is an inventory of current technology networking and telecommunications equipment.

Technology Equipment

Currently, computers are replaced every five years, but future budget constraints may change this. In the “Technology Inventory Table” you can see the numbers of computers that are planned to be replaced over the next 3 years.

Maintaining the district’s technology infrastructure involves replacing critical devices that have reached End of Life. End of Life is defined as an end of support for the product from the manufacturer. See the “Technology Inventory Table”.

For other critical devices it is more cost effective and efficient to maintain a spare on the shelf in event of a device failure. This applies to all models of Dell switches in the district. A small Dell Server is also on the shelf in the event of a failure on any Domain Controller in the district.

Networking Capacity

Our network is designed to handle network traffic at a speed of 1Gb/s between buildings and between data closets. VLANs in each building also allow us to manage the flow of traffic on the LANs and reduce broadcast traffic.

A wireless network has been deployed in each school to cover all classrooms. The wireless networks are designed to provide shared 54Mb/s throughout for network traffic. This is sufficient for all current day-to-day student academic purposes. Currently, audio and video downloads are restricted for students because heavy usage would result in poor video performance. If in the future, requirements for student achievement require additional wireless bandwidth, an upgrade to 802.11n will be planned.

Software used for curricular support and filtering

The Technology Department will continue to provide a safe and secure setting for each and every student by using the latest in content filtering. Currently the district is using Bluecoat Webfilter to block malware downloads, phishing sites, web threats and inappropriate content categories and monitor web traffic.

The Technology Department currently supports over 1,000 computers district wide which includes 76 laptop carts (consisting of 6 laptops each), 2 PC Labs and approximately 20-25 computers in each school building's Media Center. Over 100 classrooms are outfitted with SMART Boards. Our desktop & laptop operating system software is Windows XP Professional. We plan to load Windows 7 Professional on new PCs starting in the summer of 2010. Instructional software on the network complements all subject areas and addresses learners' needs.

Software for curricular support includes, but is not limited to, Microsoft Office, Kidspiration. Inspiration, Adobe Acrobat Professional, Picassa, SMART Board Notebook Software, BrainPOP, KidPix Deluxe, Scholastic Keys, Scratch, Alice, Groovy, Kurzweil

3000, AutoCAD LT, and SketchUp. Changes to curricular software occur on an annual basis as part of the annual "Approved District Software" list.

The value of some of these applications is noted below.

- Kidspiration/Inspiration is a tool that provides an easy way to apply the proven principles of visual learning. Students build graphic organizers by combining pictures, text and spoken words to represent thoughts and information. This also allows for our students to develop early literacy skills, and more advanced students improve comprehension skills and better organize ideas for writing.
- Adobe Acrobat Professional provides tools for merging various file types into .pdf files and creating forms. It also makes it possible for web pages to be printed directly to a .pdf file.
- Smart Board Notebook software provides a toolkit to teachers and students to maximize the educational benefits of the SMART Board.
- Online video conferences are currently in one of our two elementary schools to give students the chance to learn from experts and work with mentors in various fields. This will expand to other buildings as funding becomes available.
- The Technology Department continues to research the provisioning of student email accounts and other technologies.

Technology maintenance policy and plans

Staff submits requests for technical support primarily via email to the Technology Department. Most servers and other critical network hardware are maintained via manufacturers' maintenance & support contracts.

During the school-year 2010-2011, the Technology Department will maintain manufacturers' maintenance & support (M&S) contracts on the following hardware and software:

1. Hardware
    a. Most Dell servers will have next business day (NBD) M&S contracts
    b. All new computers will come with 5 year NBD warranties
    c. Firewall and Load Balancing Appliances will have (NBD) M&S contracts
    d. Aruba Networks Wireless controllers will have (NBD) M&S contracts
    e. BOED phone system will have an M&S contract
    f. Firewall will have an M&S contract

2. Software
    a. Bluecoat Webfilter will have a M&S contract
    b. Spamsoap hosted spam filtering will have a M&S contract
    c. Symantec Antivirus will have an M&S contract
    d. All other critical operational and curriculum software are covered under M&S contracts

Telecommunications services

Each building has an independent phone system with voicemail for staff. Out of the four systems, two are Avaya Merlin Magix and two are Nortel Norstar. An upgrade to a single vendor system is planned for the future when the budget allows. The new system will leverage our fiber WAN and allow 4-digit dialing between buildings, thus eliminating the need for using the public switched telephone network (PSTN) for calls between buildings.

Technical Support

In order to provide students and teachers with an ongoing, uninterrupted technology-infused curriculum, New Providence has made a commitment to professional development, to support the administration of the network, and the maintenance of the hardware and software connected to it. To support teachers in transforming classrooms, the district provides a Department Head of Interdisciplinary Technology, as well as

technology specialists who are experts in the use of technology, to enhance student learning. All members of this department help their fellow teachers bring technology into the classroom. The Department Head of Interdisciplinary Technology and the Technology Integration Specialists provide classroom lessons to students, as well as one-on-one assistance to individual teachers, grade level teams and content area teams in implementing the curriculum. The district's Manager of Information Systems and Network Specialist provide day-to-day technical support for both staff and the technology infrastructure on which the districts relies.

Facilities Infrastructure

The current physical architecture of the network in the all buildings links all but 5 IDFs directly to the MDF with fiber or copper. It is expected that the remaining IDFs will be connected directly to their respective MDFs via fiber at a cost of $6,000 over the next 3 years. IDFs and MDFs are in locked rooms or in locked cabinets. The main server room in the high school is cooled by 2 independent air conditioning units. Servers are on UPS units, as are switches in IDFs and MDFs. In the future, we hope to have a generator installed at the high school to power the devices in the server room and one of its two air conditioning units.

Classrooms are wired with multiple Cat5e and or Cat6 data lines to support multiple computers and a network printer. Wireless APs are strategically located to cover all classrooms.

Other Services

In addition, new computers will run Windows 7 Professional, new software will be distributed as appropriate, and parents and students will have access to PowerSchool, the district student management information system.

2. The following table describes the technology inventory <u>needed to improve</u> student academic achievement through 2013:

Three-Year Technology Plan Inventory Table			
Area of Need	**Describe for 2010-11**	**Describe for 2011-12**	**Describe for 2012-13**
Technology Equipment (Desktop PCs & laptops)	25 PCs 18 laptops	106 PCs	260 PCs 60 laptops
Technology Equipment (critical devices)	0	Firewall, Radius Server, and Email Server	Virtualized Server at AWR & SB, and Email Archive Server
Software used for curricular support and filtering	See Appendix	See Appendix	See Appendix
Technology maintenance policy and plans	M&S contracts for critical hardware & software, 5yr warranties for new computers	M&S contracts for critical hardware & software, 5yr warranties for new computers	M&S contracts for critical hardware & software, 5yr warranties for new computers
Technical Support	The district will maintain current staffing levels	The district will maintain current staffing levels	The district will maintain current staffing levels
Facilities – infrastructure including central telephone & security systems		Fiber runs between 5 IDFs and MDF. Replacement of 4 phone systems.	Gas Generator for Server Room
Other Services:	New PCs will run Windows 7 Professional	New software distribution & patch management system. Parent access to PowerSchool.	24/7 access to software and data for staff & students

3. The Technology Department works with Special Services staff members to integrate identified assistive technologies into the district network as appropriated. Specific technologies will be made available to students identified by Special Services or District Administration. In addition, specific technology equipment and/or software are provided to specific classes and levels of students that are again identified by Special Services or District Administration to facilitate instruction and learning. One example of software implemented in the district is Kurzweil 3000 for students. This software helps struggling readers by reading text aloud at a rate appropriate to each user, providing a model of, and support for, fluent decoding. In 2009, the application was upgraded and additional licenses were purchased.

4. Throughout the district, teachers have embraced SMART Boards, laptops, Web 2.0 resources, digital cameras, digital video recorders, and are integrating technology activities into their classrooms. Through an ongoing district Phase initiative, Phase teachers have been provided with six laptops, mounted projectors, and SMART Boards, and are trained to integrate technology in their grade levels and content areas. Teachers not currently trained in the Phase program have access to technology through mobile SMART Boards, or mobile laptop carts. There are 1,030 computers in the district, with over 93% used in instructional areas. This includes 76 laptop carts, consisting of 6 laptops each. These wireless laptops are dedicated and/or shared between classroom teachers. A PC Lab is present in both the Middle School and High School. In each of our buildings, Media Centers have 20 to 25 desktop computers that provide access for all students. 75 % of district classrooms are outfitted with projectors & SMART Boards, while other classrooms without SMART Boards have a mounted projector.

5. Each administrator is provided access to technology for his/her professional use. District administrators are also provided with remote access in order to achieve 24 hours, 7 days per week accessibility. Administrators also have access to SMART

Boards, projectors, digital cameras, flip videos, and all other district technologies provided for teachers and students.

6. The district provides accessibility to the district website for all stakeholders of the district. The website enables login accessibility for administrators, staff, teachers, students, and parents. Information on the district website is also available in accessible formats. The district website also provides a library of rich navigation objects. Though some of these include dynamic JavaScript menus, the product offers other ADA-friendly navigation objects. These objects include a Site Map, Channel Section List, Section List and Page List. These objects do not use JavaScript and are listed as simple hyperlinks. Text labels or descriptors for graphics and page formats are also provided as well as standard formats for the usability of multimedia presentations, applets and plug-ins, and scripting languages.

7. Computers currently are replaced after 5-years, but future budget constraints may alter the district's replacement plan.

B. Cyber Safety

1. The district is using Bluecoat Webfilter to block malware downloads, phishing sites, web threats and inappropriate content categories and to monitor web traffic. Websites such as Google Images and Yahoo Images are open to student searches according to each vendor's "Safe Search" policies.

2. The district's Acceptable Use Policy (AUP) for students and staff can be found in Appendix A. Students and their parents are required to sign a waiver and consent agreement that represents their compliance with the provisions of the policy. The consent and waiver agreement was updated in August 2009 to include provisions to include 21st Century Learning technologies utilized by students during the school day.

3. a) The district protects its students from inappropriate internet content by filtering websites through content filtering hardware and software. Inappropriate content is also filtered when material of an inappropriate nature is identified by administrators, technology support staff, and instructors.

   b) Technology specialists, guidance counselors, media specialists, and classroom teachers provide age appropriate instruction regarding online behavior, interacting on social networking websites, and cyber safety strategies. The district also works with community law enforcement agencies to provide additional lessons on internet safety. In March 2010, the district accepted a grant provided by the Junior League of Summit for a subscription to iSAFE, a non-profit organization that provides a comprehensive K-12 Internet Safety curriculum. Resources from the iSAFE K-12 curriculum will be implemented in September 2010 to all K-12 grade levels.

4. At a public Board of Education meeting on December 17, 2009, the district provided the community with public notice and a hearing to address any proposed Internet safety policies adopted by the school district pursuant to CIPA. Beginning in 2010, Policy #2361 will be included on the yearly agenda.

C. Needs Assessment

1. a) All New Providence teachers are expected to integrate technology into all curriculum areas in meaningful ways, as appropriate. Currently, teachers have access to desktops and wireless laptops, interactive whiteboards, digital cameras, digital video cameras, online databases, and Internet access. Teachers also utilize a variety of district software and hardware and are expected to learn how to effectively utilize the technology to increase individual student achievement. Current practices of our educators also include maintaining websites, incorporating web 2.0 activities for students, and maintaining grades on an online student information system.

b) In May 2009, teachers were given a Professional Development Survey to determine areas of instructional technology proficiencies. The survey found that teachers' technological proficiencies are at different levels, and the district responded with professional development opportunities that seek to differentiate training and support to meet the needs of each individual teacher. Based on the needs assessment, as well as formal and informal observations, the district has provided technical training and support for hardware, software, web 2.0 applications, and webpage management, accessing information, and maintaining student records online.

c) The current educational environment is as follows…

i. Currently, teachers have access to desktops and wireless laptops, interactive whiteboards, digital cameras, digital video cameras, online databases, and Internet access. Teachers also utilize a variety of district software and hardware and are expected to learn how to effectively utilize the technology to increase individual student achievement. Current practices of our educators also include maintaining websites, incorporating web 2.0 activities for students, and maintaining grades on an online student information system.

ii. In all of our district schools, technology integration specialists work with teachers individually, in small groups, as well as at school-wide meetings to deliver instruction to teachers on integrating 21st Century tools and skills into all grade level classrooms K-12. Also, through our professional development program and our Phase Initiative, staff members collaborate with others to share best practices of 21st Century Learning skills with one another.

iii. The needs of educators are evaluated by formal surveys, department and grade level meetings, by informal evaluations of progress, and through professional learning communities, and informal assessments by technology support staff.

iv. The needs of students are evaluated through the 4th grade and 8th grade technology assessments, through performance tasks, and through other measures of formal and informal classroom assessments.

v. Through the district's Professional Development Program, and integrating into the UbD format, technology workshops have helped teachers integrate skills and strategies into content area tasks.

vi. Professional development opportunities for administrators have been provided through workshops on Schoolwires, SAFARI Montage, student response systems, and are always available upon the request of an administrator. This professional development for administrators has helped them, in turn, to work with teachers to further the effective use of technology in the classroom.

vii. Ongoing professional development was provided for educators in 2009-2010 and included the following workshops, prepared and provided by technology integration specialists, the Department Head of Interdisciplinary Technology and teachers who have shared best practices of technology integration. Technology workshops were offered which included; Beginning SMART Board, Enhancing SMART Board Activities, Assistive Technologies - Best Practices, Information Literacy, Student Media Projects, Web 2.0 for Student Learning, Graphic Organizers, and Kurzweil Training. In addition, all of our Phase members receive additional technology integration training as part of our Phase process.

viii. Administrators were provided with routine updates and training on the current and emerging technologies in the district during the 2009-2010 school year.

ix. Additional supports are available through in-district Professional Learning Communities, technology support personnel and online district-developed resources.

x. The district needs to complete its ongoing Phase program to enable teachers to provide high quality technology integration to all students. Barriers relating to technology expansion include ongoing costs of hardware and software, the need to hire additional technology support personnel, the need to stay current in all areas of education technology tools, and the need to replace outdated technology.

2. The district is working to improve student achievement in the areas of problems, critical and creative thinking, communication, and collaborative problem solving, and by integrating 21st Century technology applications into classroom instruction. The district will continue to provide in-district professional development for

teachers to support 21st Century Learning. The district will make every effort to continue to provide in-district professional development for administrators to support 21st Century Learning.

3. As a result of the professional development surveys, both formal and informal observations of teacher's use of technology in the classroom, the technology goals are modified and will continue in 2010 – 2013 as follows:

    1) Continue the district's existing professional development structures that provide training of current and emerging technologies, including 21st Century skills and knowledge, and integrate those technologies into the classroom to prepare individual students to be responsible citizens in the dynamic global society of the 21st Century.

    2) The district will strive to increase access to communication tools and digital information for students, teachers and administrators, both in our schools and in the community, and promote 21st Century skills, including Internet safety practices to increase student engagement and prepare students to achieve in today's digital society.

    3) The district will continue to maintain the technology infrastructure and technology tools for management, communication, and successful technology integration into classroom instruction.

IV. Three Year Goals and Objectives

A. <u>History</u>

1. Goals from 2007-2010 Plan

Goal I (2007-2010): The New Providence School District will purchase additional hardware and appropriate software as determined to be necessary to increase the ability of all students to conduct research, solve problems and produce presentations

that demonstrate achievement aligned with the New Jersey Core Curriculum Content Standards (NJCCCS). To date, due to district budgeting for technology and its commitment to successful technology integration there are 26 classrooms at AWR , 28 classrooms at Salt Brook, and 44 classrooms at the High School/Middle School that have fully-equipped classrooms of mounted projectors, Interactive Whiteboards, and wireless laptops. In addition, all instructional classrooms are equipped with mounted projectors to support district-wide access of SAFARI Montage, a Video on Demand system that was implemented in September 2009.

Support for Continuation: The continuation and/or modification of this goal is necessary to expand on continued student availabilities, meet the NJCCCS, and complete our instructional initiative. In addition, this goal supports Goals 3 and 4 of the NJDOE State Technology Plan.

Goal II (2007-2010). The New Providence School District will provide increased technology training opportunities that maximize hands-on experience for teachers to use both existing and new technologies and to integrate them into classroom teaching and student learning in support of the NJCCCS.

Support for Continuation: Within the district's professional development program and the district Phase initiative, teachers that have benefited from the technology training will be provided with the necessary to meet the NJCCCS and 21st Century goals. This goal aligns with Goal 2 of the NJDOE State Technology Plan.

Goal III (2007-2010). The New Providence School District will revise and evaluate implementation of the K-12 Technology Program of Studies to insure integration with classroom instruction and alignment with the New Jersey Core Curriculum Content Standards for Technological Literacy.

Support for Continuation: The New Providence School District began an instructional plan that integrates Understanding by Design and Differentiated Curriculum in 2007. The K-12 Technology Program was modified in 2008 to include

a revised K-6 Computer Literacy Curriculum Guide and, in 2010, to include a 7-12 ICT Information, Communication, and Technology Literacy Guide, with the goal that teachers will integrate NJCCCS Technology Literacy Standards into all subject area unit plans. In addition, a district-wide adoption of the new curriculum model required all district K-12 subject unit plans to include NJCCCS 8.1 Essential Questions, Enduring Understandings, Benchmark Indicators, Performance Tasks, and technology activities that support subject learning, critical thinking and problem solving skills.

B: Goals and Objectives for 2010-2013

1. Modified/New Goals

Goal I (2010-2013): Continue the district's existing professional development structures that provide training of current and emerging technologies, including 21st Century skills and knowledge, and integrate those technologies into the classroom to prepare individual students to be responsible citizens in the dynamic global society of the 21st Century. This goal aligns with Goal 2 of the NJDOE State Technology Plan.

Goal II (2010-2013): The district will to strive to increase access to communication tools and digital information for students, teachers and administrators, both in our schools and in the community, and promote 21st Century skills, including Internet safety practices to increase student engagement and prepare students to achieve in today's digital society. This goal aligns with Goals 1 and 3 of the NJDOE State Technology Plan.

Goal III (2010-2013): The district will continue to maintain the technology infrastructure and technology tools for management, communication, and successful technology integration into classroom instruction. This goal aligns with Goal 4 of the NJDOE State Technology Plan.

V. Three-Year Implementation Strategies Tables (July 2010-June 2013)

Three-Year Technology Implementation Activity Table				
District Goals and Objectives	**Strategy/Activity**	**Timeline**	**Person Responsible**	**Documentation**
Goal I – Professional Development	Technology workshops: Professional Development days	October and March	Chair: Professional Development Committee/ Director: Curriculum, Instruction, and Supervision	Schedule of Professional Development Day activities and rosters
	District-provided technology workshops	2010 - ongoing	Technology Staff/ Director: Curriculum, Instruction, and Supervision	District workshop schedule
	Technology mini-workshops provided during district meetings	2010 - ongoing	Department Heads and Administrators	Agendas and summaries of grade level and content area meetings
	Assessment of teacher technological proficiency	2010 - ongoing	District Administration	Observations
	Technology Literacy Surveys for teachers	2010 – ongoing	Department Head of Interdisciplinary Technology	Results of surveys
	Increase training for teachers to enhance communication tools	2010 - ongoing	District Administration/ Department Head of Technology/ Technology Staff	District WebPages, Web 2.0 Applications
	Increase training for teachers to integrate assistive technologies as appropriate	2010 - ongoing	District Administration/ Department Head of Technology/ Technology Staff	Agendas and summaries of grade level and content area meetings, workshop schedules
	Evaluate the implementation of hardware and software appropriate to support high levels of student achievement	2010 - ongoing	Department Head of Interdisciplinary Technology	Report to Board of Education
	Continue to support UBD/technology-based curriculum format	2010 – ongoing	Director: Curriculum, Instruction, and Supervision	Unit plan curriculum format
	Provide increased opportunities for teachers to learn effective ways to integrate 21st Century tools into the classroom	2010 - ongoing	Chair: Professional Development Committee/ Director: Curriculum, Instruction, and Supervision	District workshop schedule, reports of grade level content area meetings

Goal II – Provide students with increased access to 21st Century Tools	Provide increased remote access to school digital resources outside of school hours	2010 - ongoing	District Administration/ Department Head of Technology/ Technology Staff	Records of classroom accessibility
	Provide 21st Century tools for students	2010 - ongoing	Director: Curriculum, Instruction, and Supervision/ Technology Staff	Records of classroom accessibility
	Assessment of student technological proficiencies in grade 8 to meet NCLB requirement	2010 - ongoing	District Administration/ Department Head of Technology	Online Assessment Data
	Increase training for teachers to enhance communication tools	2010 - ongoing	District Administration/ Technology Staff	District WebPages, Web 2.0 Applications
	Increase content/tools provided on district website	2010 - ongoing	Director: Curriculum, Instruction, and Supervision/ Technology Staff	District WebPages
	Implement additional Internet Safety practices for students	2010 - ongoing	District Administration/ Department Head of Technology/ Technology Staff	Observations
	Assess student understanding of Internet safety practices	2010 - ongoing	Department Head of Technology/ Technology Staff	Assessment Data
	Revise district Internet Safety Policy to address 21st Century skills	2010	District Administration/ Department Head of Technology/ Technology Staff	AUP and Internet Safety Policy documents
Goal III – Maintain Technology Resources	Assessment of hardware and software technology needs for continuation of effective integration	Yearly	Department Head of Interdisciplinary Technology	Results of survey
	Purchase of additional equipment to improve accessibility of technology to students and staff as funds permit	2010 - ongoing	Department Head of Interdisciplinary Technology/ Manager of Information Systems	Technology records
	NPSD will provide support for technical and educational purposes	2010 - ongoing	Department Head of Interdisciplinary Technology/ Technology Staff	Technical Support Logs
	Continue to have the Technology C Committee to serve as advisors for technology direction, strategies, and prioritizing district technology needs	2010 - ongoing	Technology Committee Members include: Business Administrator/ Board Secretary/ Director of Curriculum, Instruction, and Supervision/ Technology Staff	Technology Committee Agendas and Minutes

	Continue to have the Technology C Committee develop and balance IT solutions to meet district needs	2010 - ongoing	Technology Committee Members include: Business Administrator / Board Secretary/ Director of Curriculum, Instruction, and Supervision/ Technology Staff	Technology Committee Agendas and Minutes
	Continue to have the Technology C Committee bring emerging technology to the attention of administrators and other district constituent groups for review	2010 - ongoing	Technology Committee Members include: Business Administrator / Board Secretary/ Director of Curriculum, Instruction, and Supervision/ Technology Staff	Technology Committee Agendas and Minutes

VI. Funding Plan

A. The anticipated costs for this 2010-2013 Technology Plan can be found in the funding tables below.

Three-Year Technology Plan Anticipated Funding Table (2010-2011)				
ITEM	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital curricula				
Print media				
Technology Equipment	25 PCs - $22,500 18 laptops - $27,000			
Network				
Capacity			ISP fees - $655/month	
Filtering				
Software	Licensing fees for Microsoft Office, antivirus, etc. is included in PC and laptop costs			
Maintenance			M&S contracts for critical hardware and software systems - $90,000	
Upgrades				
Policy and Plans				
Other services				

Three-Year Technology Plan Projected Funding Table (2011-2012)				
ITEM	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital curricula (see NIMAS in the HELP section)				
Print media				
Technology Equipment			106 PCs - $84,800 Firewall, Radius Server, and Email Server for ~$12,000	
Network			Fiber runs between 5 IDFs and MDF for ~$6,000.	
Capacity			ISP fees - $655/month	
Filtering				
Software			Licensing fees for Microsoft Office, antivirus, etc. is included in PC and laptop costs	
Maintenance			M&S contracts for critical hardware and software systems - $90,000	
Upgrades			New software distribution & patch management system - $15,000	
Policy and Plans				
Other services			Replacement of 4 phone systems: $195,000	

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Three-Year Technology Plan Projected Funding Table (2012-2013)				
ITEM	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital curricula (see NIMAS in the HELP section)				
Print media				
Technology Equipment			260 PCs - $208,000 60 laptops - $90,000 Virtualized Server at AWR & SB, and Email Archive Server for ~$15,000	
Network			24/7 access to software and data for staff & students - $75,000	
Capacity			ISP fees - $655/month	
Filtering				
Software			Licensing fees for Microsoft Office, antivirus, etc. is included in PC and laptop costs	
Maintenance			M&S contracts for critical hardware and software systems - $90,000	
Upgrades				
Policy and Plans				
Other services			Gas Generator for Server Room at High School - $40,000	

B. The federal, state, local and other sources of funds used to help ensure that students have access to technology are included in the District's annual budget. It appropriates funds for teacher professional development and tuition reimbursement. A portion of these funds is also used to integrate technology effectively into curricula and instruction.

C. Board approval for this technology plan is included in Appendix B.

D. A board approved budget for each successive year of this plan is filed with the Technology Plan for e-rate auditing purposes.

E. The creation of the Technology Plan is March 25, 2010.

VII. Professional Development

A. **Coordinator of Professional Development Activities**:
Sandra M. Searing – Director of Curriculum, Instruction, and Supervision

B. **Planned Professional Development Activities for Teachers, Administrators, and School Library Media Personnel**.

1. All administrators will receive training in new and ongoing technologies as part of regularly scheduled curricular council meetings. Administrators also receive individual training and support from the technology staff. In addition, administrators receive group updates and overviews of new technologies.

2. Through our in-district development program, identified workshop facilitators will work with staff, include library media personnel, to enable them to design and implement effective 21st Century applications of technology into their instructional units.

3. Through technology resources available in the district budget, members of the technology staff attend workshops targeted to specific needs of the district.

4. Professional development activities in the application of assistive technologies are incorporated into all technology-related workshops. Specific assistive technology applications are provided to Special Education teachers as applicable.

C. **Professional Development Activities:**

The district Phase Initiative, with its focus on Understanding by Design and technology, integrates the 21st Century application of effective technology into all workshops. In-class support for teachers exists through workshop facilitators, department heads, tech integration specialists, administrators and Professional Learning Communities.

D. Whenever possible, we will continue to support the professional development activities that have enabled the district to move forward with the high quality integration of technology. These include the district-wide initiative and the focused Phase cohorts, professional development in-district workshops, and out of district workshops that will enable facilitators to improve their skills.

VIII. Evaluation Plan

The New Providence School District will regularly evaluate this plan to assess the effectiveness of technology in the following ways:

1. **Technology integration to promote 21st Century Skills will be assessed by**:
    - scheduled review of teachers' unit/lesson plans
    - review of new and revised curriculum
    - classroom observations of teachers
    - artifacts of student progress
    - student data-assessing technology skills
    - teacher assessment of effectiveness of software

- evaluation of videoconferencing effectiveness
- evaluation of student use of communication tools
- rubrics provided by district ICT Literacy Guide

2. **Technology integration that meets State standards Sections 8 and 9 will be assessed by:**

   1) Student performance as measured by evaluation rubrics provided in the district ICT (Information, Communication, and Technology) Guide and content specific criteria developed by subject area teachers will be assessed by:
      - review of teachers' plans to assess technology integration
      - assessment of technology literacy in grades 4, 8, and 12
      - assessment of technology to address differentiated learning needs
      - teacher evaluation of hardware and software regarding alignment with standards and content area objectives

3. **Student development of life-long learning skills and technology literacy skills that meet NJCCC Standards 8 and 9** will be assessed by student performance, as measured by evaluation rubrics provided in the district ICT (Information, Communication, and Technology) Guide, and content-specific criteria developed by subject area teachers.