I. Overview

The purpose of this document is to provide the framework for integrating technology into the classroom, assessing the technology skills of New Brunswick students, providing teachers with technology training and covering New Jersey's Core Content Curriculum Standards for Technology using New Brunswick's Technology Curriculum. There are three grade levels which are required by the state of New Jersey to be assessed: 4th, 8th and 12th grades. At each of these grade levels the teachers will be required to integrate technology into a content area to allow for the assessment of their students's technology skills. The projects will be a collaborative effort between the district technology specialists and the grade level teachers.

II. History

In the 2006-2007 school year the technology infusion teachers created a comprehensive 8th grade technology benchmark assessment in conjunction with the 8th grade social studies teachers. The assessments were developed in response to the State of New Jersey and the No Child Left Behind requirements for technology. The premise of the project was to assess 8th graders' skills in the following applications: Microsoft Word, Microsoft Power Point, Microsoft Excel and Inspiration. The content unit selected was the Stock Market and Finance. Students were required to select three companies, provide corporate overviews and track their stock's performance over a period of time. For the complete project web quest page go to: http://www.nbps.k12.nj.us/schools/ww/web/stockmarket-home.htm. Student's skills were assessed in a number of ways. First, they were visually assessed in the classrooms for certain skills by the technology teachers. Next, the students' final projects were assessed in a holistic scoring environment by technology teachers from other schools within the district. The scores are derived from in-class observations as well as evaluation of the student's final product.

NBPS 8th Grade Assessment Totals 2006-2007 School Year				
School	**Not Proficient**	**Nearly Proficient**	**Proficient**	**Highly Proficient**
Lincoln	2	28	15	1
Livingston	1	0	19	3
McKinley	17	9	24	3
Middle School	67	52	55	2
Roosevelt	15	25	45	2
Woodrow Wilson	1	4	15	1
TOTAL	**103**	**118**	**173**	**12**
Percentage	**25%**	**29%**	**43%**	**3%**

Fourth grade students were informally assessed by technology teachers. Informal assessment consisted of the technology teacher walking throughout the classroom computer centers/labs and evaluating students' skills.

III. District Information 2007-2008 School Year

In order to accommodate all schools and students for the technology benchmark assessments in grades 4, 8 & 12, we need to understand the total numbers of students, teachers and technology specialists in district. Currently there are four technology specialists responsible for all of New Brunswick Public Schools. The complete breakdown of students and classes for the district for 4th, 8th and 12th grades are provided below.

4th Grade - Total Students*: 567

School	# General Ed Classes	# Special Ed Classes
Redshaw	4	2
Lincoln	3	1
Livingston	3	0
Lord Stirling	3	1
McKinley	4	0
Paul Robeson	2	0
Roosevelt	6	1
Woodrow Wilson	2	0

8th Grade - Total Students*: 505

School	# General Ed Classes	# Special Ed Classes
Lincoln	2	1
Livingston	2	0
Middle School	15	2
McKinley	3	0
Woodrow Wilson	2	2

*As of 10/1/07

12th Grade - Total Students*: 290

IV. Benchmark Assessment Plan

Fourth Grade

For the fourth grade there will be two projects that can both be used as the primary technology assessment project.

1. New Jersey Research Project
2. Solar System Project

Eight Grade

1. 2007-8 Technology Benchmark Assessment: http://www.nbps.k12.nj.us/schools/ww/web/stockmarket-home.htm - Change to tracking of one or two stocks as opposed to three and additional changes.
2. Projects to introduce applications covered by technology curriculum:
   - PowerPoint – Compare and contrast ancient Mesopotamia to ancient Egypt
   - Inspiration Graphic Organizer – Significant Achievements of the Islamic World
   - Excel – Students will compare sample populations of grade levels within their school.
   - Word – Skills for Word will be addressed in CPT meetings

Twelfth Grade

Benchmark Assessment:

Each student will create a digital portfolio accessible from the internet or CD comprised of writings, projects, resumes and a multimedia presentation. Students will collect artifacts from various content areas that demonstrate the technological skills they have acquired throughout high school. Each artifact should accompany a reflection that justifies their choice and documentation of their learning. A portfolio is a good way for students to display their learning progress over the years by carefully selecting projects that meet various benchmarks.

For the 12th grade students will do "It's my life Project", the outcomes will be:

- A career research paper
- Create a resume and cover letter
- Create a budget
- Create a classroom career database
- A PowerPoint to present their career choice
- Write a reflection essay
- If possible create a basic webpage
- Development of electronic portfolio (see *NBHS-Electronic-Portfolio-Plan-2007-8.doc*)

IV. Rollout Plan

Part 1 - Our recommendation is that the Technology Specialist Team meets with all building principals to provide a consistent message as to how we plan to integrate technology into each of their buildings. The idea is to provide a framework of consistency throughout the entire district to account for NBPS's highly mobile population. We plan to showcase the Technology Curriculum section of the NBPS Secret Page and how we plan to meet and work with their teachers.

Part 2 – After meeting with the building principals we plan to meet with all grade levels at Common Planning Time meetings. We will make sure that 4th and 8th grade classes are met with first as they are assessment grades and will require more assistance. When addressing common planning time meetings with the teachers we plan to:

1. Showcase the Technology Curriculum section of the NBPS Secret Page:
   - Minimum of 2 technology infused projects that are available via web or to download.
   - All projects are designed to meet and/or exceed NJ Core Content Curriculum Standards, NBPS Technology Curriculum, and NBPS Core Content Area Curriculum.
   - Easy to use "How To" Guides for:
     - Kidspiration
     - Inspiration
     - MS Office (Word, Excel, PowerPoint, FrontPage)
     - RealTime (Attendance & Gradebook)
   - Technology Rubrics
     - 4th Grade (Word, Excel, PowerPoint, Kidspiration)
     - 8th Grade (Word, Excel, PowerPoint, Inspiration)
     - 12th Grade (Word, Excel, PowerPoint, FrontPage, Access, Publisher, Resume and Reflection)
2. Discuss and explain teacher's responsibility in infusing technology into their classroom.
3. 4th, 8th and 12th grade teachers will need training on how to administer assessment, use rubrics and report final class proficiency totals.
4. Work with teachers to schedule times for Tech Specialists to go to their classrooms and model technology lessons.

Timeframe Grades K-8

January 2008

- ✓ Technology Specialist Team meets with designated building principals to discuss rollout (if hasn't been done already)
- ✓ Technology Specialist Team meets with grade level meetings to discuss rollout and introduce secret page.
- ✓ Technology Specialist Team meets with 4th & 8th grade teachers to modify the content area of the assessments to reflect April/May curriculum.

February/March 2008

- ✓ Technology Specialist Team plans times to go to classrooms/computer labs to model lessons for teachers upon request.
- ✓ Classroom Teachers to familiarize themselves with pre-assessment/assessment projects and rubrics on Curriculum Technology Page.
- ✓ Classroom Teachers will have to give pre-assessment projects and instruct skills to class.

April/May 2008

- ✓ 4th & 8th grade teachers give designated district technology assessment.
- ✓ Technology Specialists will be available to assist teachers.

May/June 2008

- ✓ Teachers will score assessments based on the district technology rubrics and will provide final scores and projects (electronically) to Technology Specialists.
- ✓ Technology Specialists will compile assessment scores and present report to district and state.

Timeframe Grades 9-12

January 2008

- ✓ Technology Specialist Team create student user accounts and projects in Moodle
- ✓ Technology Specialist Team meet with building principal & others directors to discuss rollout
- ✓ Technology Specialist Team meets with all teachers involved (during Lesson plan review) to discuss rollout and introduce secret page.
- ✓ Technology Specialist Team meets with teachers involved to modify the content area of the assessments to reflect curriculum.

February 2008

- ✓ Technology Specialist Team plan times to go to classrooms/computer labs to model lessons and introduce Moodle to the students
- ✓ Classroom Teachers to familiarize themselves with Moodle and pre-assessment/assessment projects and rubrics
- ✓ Classroom Teachers will give pre-assessment projects and instruct skills to class.

March/April 2008

- ✓ 12th grade teachers give designated district technology assessment.
- ✓ Technology Specialists will be available to assist teachers.

May/June 2008

- ✓ Teachers will score assessments based on the district technology rubrics and will provide final scores and projects to Technology Specialists. Scores should be available in Moodle website.
- ✓ Technology Specialists will compile assessment scores and present report to district and state.