

Transforming Teaching and Learning for Our 21st Century Students

Spencerport's Smart Schools Investment Plan

Second Board of Education Review

***Tuesday, April 26, 2016
District Office***



UPDATE: SSIP Approval Process

- ✓ Board of Education approved initial Smart Schools Investment Plan (March 8, 2016)
- ✓ Smart Schools Investment Plan placed on District website for 30 days for public comment
- ✓ Public Hearing on the District's Smart Schools Investment Plan (April 12, 2016)
- ✓ Comments, revisions and plan enhancements incorporated into SSIP for second Board of Ed. review (April 26, 2016)
- ❑ Board of Ed. reviews & approves final plan, posted on website (TBD)
- ❑ District's plan forwarded to NYS along with Smart School application (TBD)
- ❑ Plan reviewed, modified and approved by State Ed. Dept. (TBD)
- ❑ Plan reviewed, modified and approved by SSIP Review Board (TBD)
- ❑ District authorized to make purchases for reimbursement from the Smart Schools allocation (TBD)



Smart Schools Investment Plan

Introduction: Smart Schools Bond Act of 2014

- ▶ The Smart Schools Bond Act was approved by NYS voters in November 2014
 - ▶ NYS authorized to borrow \$2 billion
 - ▶ Spencerport allocation: \$2,728,821

Smart Schools Investment Plan

Introduction: Smart Schools Purpose

Improve learning and opportunity for public and non-public school students by funding capital projects to:

1. install high-speed broadband or wireless internet connectivity for schools and communities;
2. acquire learning technology equipment or facilities, including but not limited to interactive whiteboards, computer servers, and desktop, laptop, and tablet computers;
3. construct, enhance, and modernize educational facilities to accommodate pre-kindergarten programs and to provide instructional space to replace classroom trailers; and/or
4. install high-tech security features in school buildings and on school campuses, including but not limited to video surveillance, emergency notification systems, and physical access controls.

Smart Schools Investment Plan

Introduction: Smart Schools Investment Plan

- ▶ District's must submit a Smart Schools Investment Plan for review and approval
- ▶ SSIP to include:
 - linkages between long-term educational goals and technology investments,
 - providing learning opportunities beyond the classroom utilizing technology,
 - addressing the educational needs of all students including those who have not been successful in the traditional classroom setting.

Smart Schools Investment Plan

Executive Summary of District's Plan for Resource Allocation

- ▶ District's Allocation: **\$2,728,821**
 - Network Connectivity, **approximately \$50,000 (2%)**
 - Re-wiring three technology labs at the High School
 - High-Tech Security, **approximately \$85,000 (3%)**
 - Additional security cameras at Bernabi Elementary School, Canal View Elementary School, Taylor Elementary School, Cosgrove Middle School and the Transportation compound.

Smart Schools Investment Plan

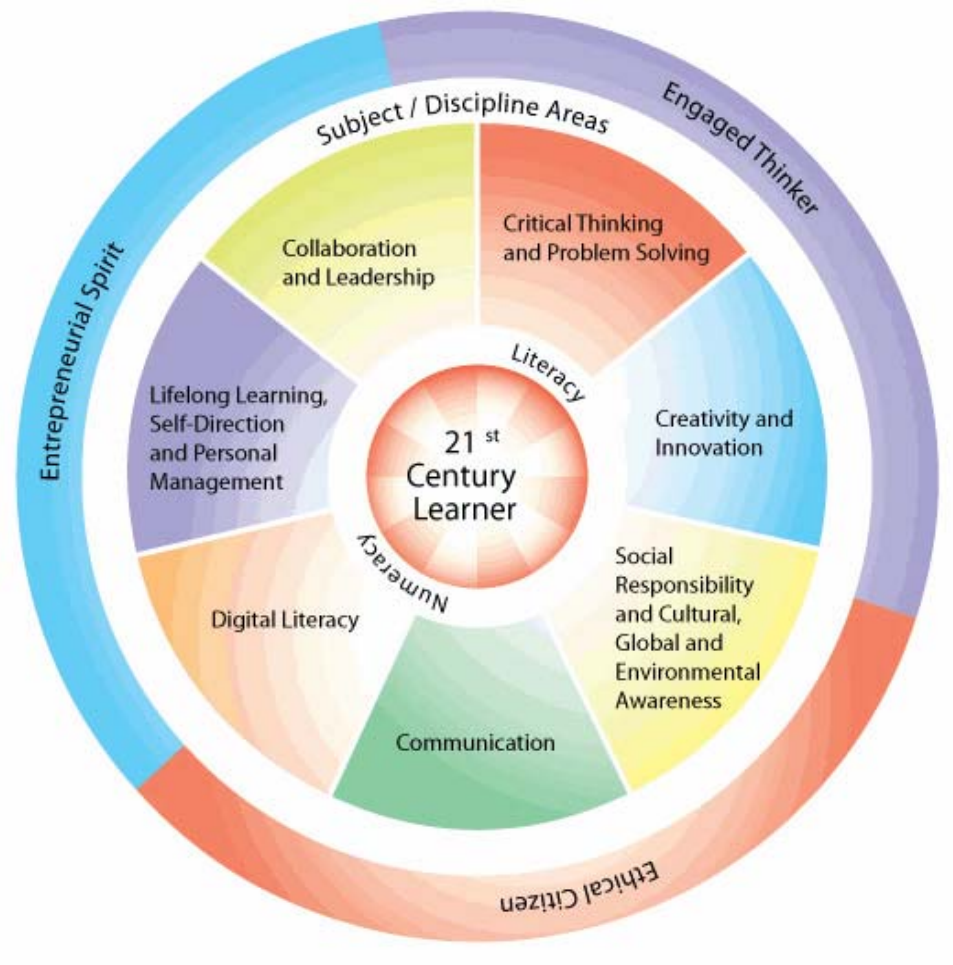
Executive Summary of District's Plan for Resource Allocation

- ▶ District's Allocation: **\$2,728,821**
 - Acquisition of Learning Technology Equipment, **approximately \$2,593,821 (95%)**
 - Purchases including but not limited to desktop computers, laptop computer, tablet computers, other mobile computing devices, peripherals, interactive displays, wireless access points, etc.

Smart Schools Investment Plan

Instructional Objectives

- ▶ The 21st Century Learner needs
 - ▶ to be literate and have strong numeracy skills.
 - ▶ demonstrate the 4 C's
 - collaboration, critical thinking, creativity and communication
 - ▶ have the mindsets for self-direction and social responsibility, and
 - ▶ be **digitally literate**



Smart Schools Investment Plan

Instructional Objectives

2014 District Technology Summit
Framework for
Technology Integration



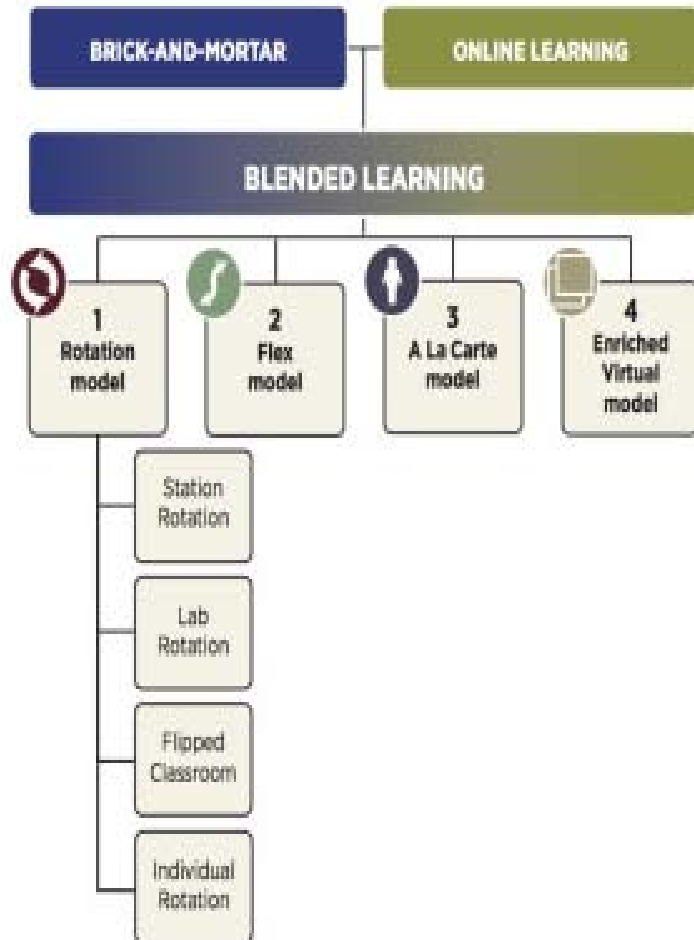
What is blending learning?

The definition of **blended learning** is a formal education program in which a student learns:

- (1) at least in part through online learning, with some element of student control over time, place, path, and/or pace;
- (2) at least in part in a supervised brick-and-mortar location away from home; and
- (3) the modalities along each student's learning path within a course or subject are connected to provide an integrated learning experience.



Models and Support



- ▶ Measured approach with pilot teachers working on the blended learning model for the past five years across all grade levels
- ▶ Access to a Learning Management System
- ▶ Internal support from Enrichment Specialists, Instructional Specialists, and members of the 21st Century Teams
- ▶ Targeted workshops that address hardware, online resources, instructional practices, and assessment techniques
- ▶ Release time to support teachers as they transition to this model
- ▶ Seek feedback from our stakeholders

Blended Learning Activity

	Teachers Do	Students Do
Traditional Instruction	Lecture, facilitate, provide content, direct instruction, set the pace	Listen, follow directions, learn, take notes, complete activities, do homework, study
Blended Instruction	Determine content, create instructional materials, plan lessons/activities, use technology and available tools, differentiate, flex approaches, facilitate	Learn, set their pace, choose venue, use technology, choose activity, repeat activity, obtain information through technology resources
	Looks Like	Sounds Like
Traditional Instruction	Teacher in front of room, students in rows, textbook, pen and paper, students sitting, teacher standing, teacher input, uniformity	Bells, quiet, one voice at a time
Blended Instruction	Differentiation, movement, earbuds/headphones, collaboration and problem solving, group work, student centered/driven, teacher as facilitator, student created content	Learning noise, many voices, on-going conversation
	Is exciting because...	Is scary because...
Blended Instruction	Better behavior from kids when they are given the responsibility to use the technology, more student ownership of their work	Lots to plan (effective lessons), how to organize classes, constant access, what are students doing when teacher is providing instruction, when can kids "get away" from their work?

Smart Schools Investment Plan

Hardware Allocation Plan

- ▶ Hardware allocation goal to support the achievement of our instructional objectives
 - ▶ Grades K-1 1 device for every 2 students (1:2)
 - ▶ 456 students (approx. 270 devices) in 2017-18
 - ▶ Grades 2-5 1 device for every student (1:1)
 - ▶ 1,055 students in 2017-18
 - ▶ Grades 6-8 1 device for every student (1:1)
 - ▶ 810 students in 2017-18
 - ▶ Grades 9-12 1 device for every student (1:1)
 - ▶ 1,122 students in 2018-19



Smart Schools Investment Plan

Two-year plan for K-5

Grades	2016-17	2017-18
K and 1	6 devices per classroom 1 cart per grade level	
2 through 5	5 pilot 1:1 classrooms per school @ BES, MES & TES and 8 pilot 1:1 classrooms at CVES	

Smart Schools Investment Plan

Two-year plan for K-5

Grades	2016-17	2017-18
K and 1	6 devices per classroom 1 cart per grade level	1:2 1 cart per grade level
2 through 5	5 pilot 1:1 classrooms per school @ BES, MES & TES and 8 pilot 1:1 classrooms at CVES	1:1

1 cart with tablets for each school (year TBD)

Smart Schools Investment Plan

Two-year plan for 6-8

Grades	2016-17	2017-18
6th	1:1	
7th	Pilot 8 1:1 classrooms, Refresh 6 carts and 2 Technology rooms	
8th		

Smart Schools Investment Plan

Two-year plan for 6-8

Grades	2016-17	2017-18
6th	1:1	1:1
7th	Pilot 8 1:1 classrooms, Refresh 6 carts and 2 Technology rooms	1:1
8th		1:1

Smart Schools Investment Plan

Three-year plan for 9-12

Grades	2016-17	2017-18	2018-19
9th	9 1:1 Pilots (gr 9-12)		
10th			
11th			
12th			

Smart Schools Investment Plan

Three-year plan for 9-12

Grades	2016-17	2017-18	2018-19
9th	9 1:1 Pilots (gr 9-12)	24 1:1 Pilots (gr 9-12)	
10th			
11th			
12th			

Smart Schools Investment Plan

Three-year plan for 9-12

Grades	2016-17	2017-18	2018-19
9th	9 1:1 Pilots (gr 9-12)	24 1:1 Pilots (gr 9-12)	1:1
10th			1:1
11th			1:1
12th			1:1

Smart Schools Investment Plan

Three-year plan for K-12

Grades	2016-17	2017-18	2018-19
K & 1	6 per classroom	1:2	1:2
2 – 5	23 pilot 1:1 classrooms	1:1	1:1
6	1:1	1:1	1:1
7-8	8 pilot 1:1 classrooms	1:1	1:1
9-12	9 pilot 1:1 classrooms	24 pilot 1:1 classrooms	1:1

Smart Schools Investment Plan

Student Perspective

Grade	2016-17	2017-18	2018-19
K	6 per room	1:2	1:2
1	6 per room	1:2	1:2
2	Pilots	1:1	1:1
3	Pilots	1:1	1:1
4	Pilots	1:1	1:1
5	Pilots	1:1	1:1
6	1:1	1:1	1:1
7	Pilots	1:1	1:1
8	Pilots	1:1	1:1
9	Pilots & SS	Pilots & SS	1:1
10	Pilots & SS	Pilots & SS	1:1
11	Pilots & SS	Pilots & SS	1:1
12	Pilots & SS	Pilots & SS	1:1

Smart Schools Investment Plan

Hardware Allocation Plan

► Implementation

- Elementary Schools
 - Classroom based
- Middle School
 - 2016-17: 6th: Student based (1:1)
7th/8th: Classroom based
 - 2017-18: Student based (1:1)
- High School
 - 2016-17: Classroom based
 - 2017-18: Classroom based
 - 2018-19: Student based (1:1)

► Replacement

- Four-year lifecycle after initial transition
- Replacements will be building based (e.g., every year, approximately 25% of the High School devices will be replaced).



Smart Schools Investment Plan

Professional and Technical Supports

- ▶ Professional Development
 - ▶ District's 21st Century Teams
 - ▶ Learning, exploring, demonstrating, supporting
- ▶ Focus: Blended Learning
 - ▶ Supplementing and supplanting face-to-face learning methodology with the delivery of instructional content through digital and online media.



Smart Schools Investment Plan

Professional and Technical Supports

- ▶ Professional Development
 - ▶ Wave One teachers – 2016-17: 51 teachers with 1:1
 - 23 Elementary, 19 Middle School, 9 High School
 - ▶ Wave Two teachers – 2017-18: all remaining Elementary and Middle School teachers and 15 High School teachers
 - ▶ Wave Three teachers – 2018-19: all remaining High School teachers
 - Supports June-August prior to school year
 - Continuing support through school year



Smart Schools Investment Plan

Professional and Technical Supports

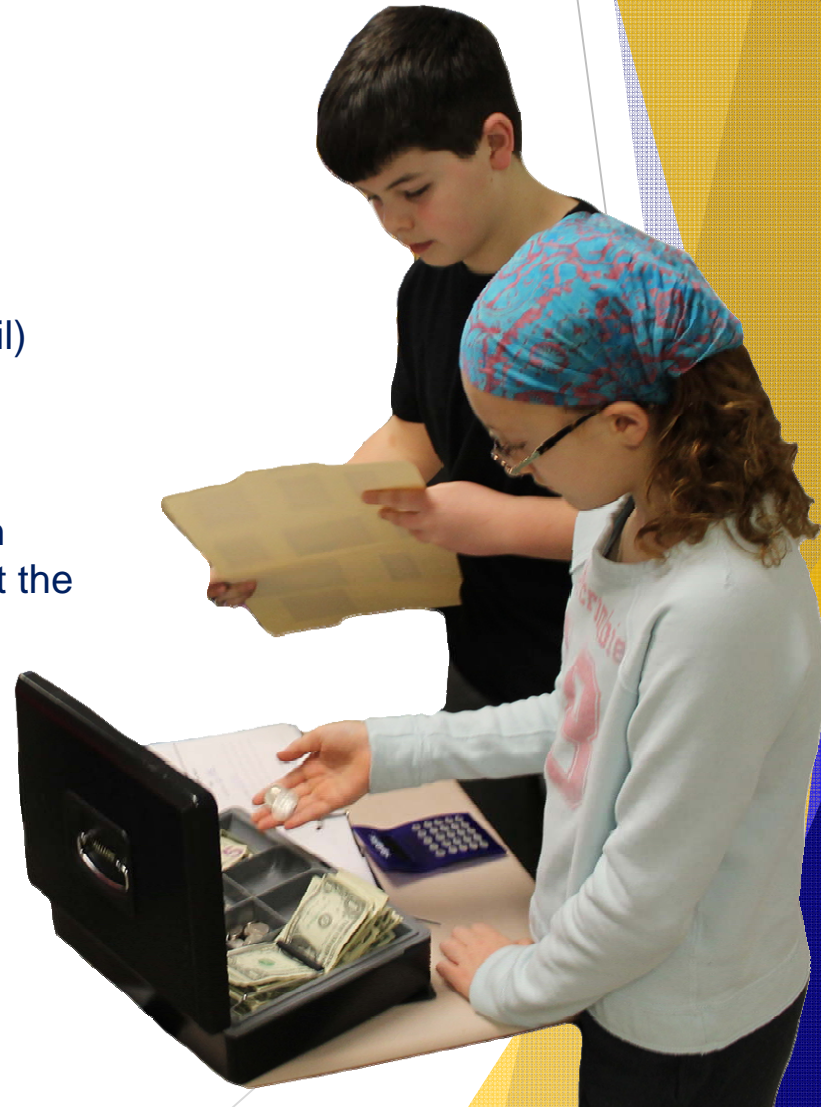


- ▶ Technical Support – Increasing Capacity
 - ▶ Increase technical support staff by a minimum of one specialist per year
 - Goal – quick turnaround time for issues in schools
 - ▶ Increase District capacity to remotely view and repair software issues
 - ▶ Provide professional development to technical support staff
 - ▶ Develop a supply of back-up devices

Smart Schools Investment Plan

Financial Sustainability

- ▶ Funding sources for technology
 - ▶ State Aid
 - ▶ Computer Assisted Instruction (per pupil)
 - ▶ Technology Acquisition Plan
 - ▶ Need to incrementally increase budget allocation so equipment purchased with Smart School Funds can be replaced at the end of its customary lifecycle.
 - ▶ 4 year replacement plan
 - Students, staff and computer labs
 - ▶ Replacement and enhancement of the District's network
 - ▶ Replacement and enhancement of peripherals



Smart Schools Acquisition Plan

School Levels	2016-17	2017-18	2018-19
K-5	286 tablets (K-1) ¹ 542 laptops (2-5) ¹ 20 carts 8 wall mount storage	35 tablets (K-1) ¹ 512 laptops (2-5) ¹ 57 carts/storage	
6-8	512 laptops ¹ 117 Desktops ¹ 50 wi-fi access points 8 switches 70 workstation laptops ¹ 5 carts	362 laptops ¹	
9-12	285 laptops ¹ 9 carts	571 laptops ¹ 13 carts	368 laptops ¹

¹ All numbers are reflective of student enrollment forecasts for each year plus 7% for new students and temporary replacement of devices needing repair.

Smart Schools Financial Plan

School year	Plan A \$	Plan A Source	Plan B \$	Plan B Source
2016-17	\$1,178,926	SSIP Funds	\$1,178,926	2015-16 Budget 2016-17 Budget 2016-17 State Aid
2017-18	\$936,960	SSIP Funds	\$936,960	SSIP funds
2018-19	\$221,600	SSIP Funds	\$221,600	SSIP Funds
2019-20	\$256,335 (MS laptops)	SSIP Funds	\$458,275 (MS & HS laptops)	SSIP Funds
2020-21	NA		\$475,525 (Elem & HS laptops)	SSIP Funds
2021-22	NA		\$458,275 (MS & HS laptops)	SSIP Funds
2022-23	NA		\$43,186 (TBD)	SSIP

Reflects spring 2016 pricing. Pricing in future years may increase or decrease.

Smart Schools Investment Plan

Comments or
Questions
about our
District's
Proposed
Smart School
Investment
Plan?

