

Plainedge Public Schools Smart Schools Bond Act



Updated Proposed Investment Plan

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INSTRUCTIONAL TECHNOLOGY



The Plainedge School District via its Technology Roadmap looks to facilitate student learning and standards for all learners as outlined in the International Society for Technology Educators (ISTE) National Education Technology Standards (NETS) and The Partnership for 21st Century Learning. As such the Plainedge School District's goal is to foster the application of these standards via technology integration.

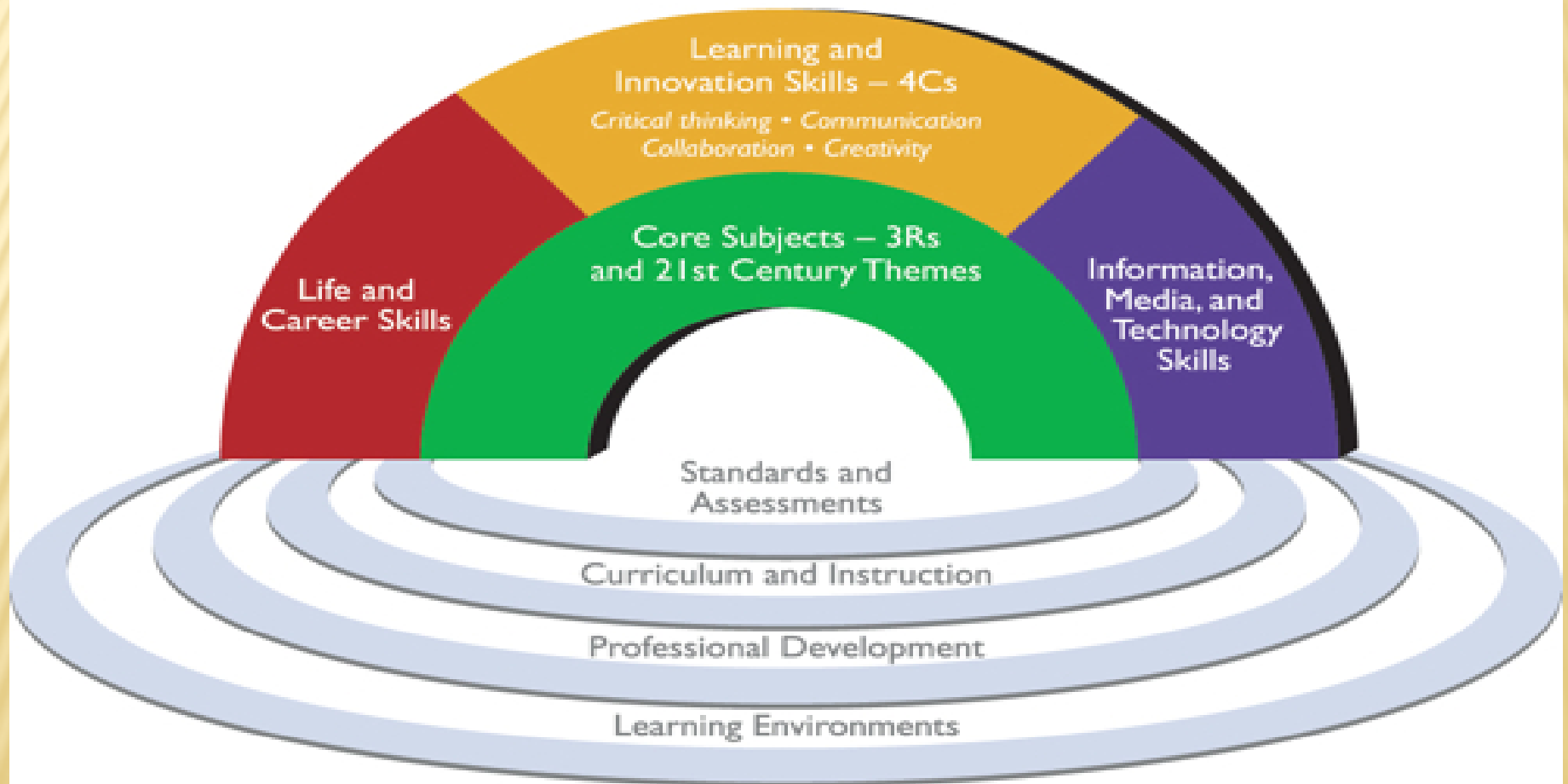
Core Beliefs for Educational Technology

1. Engagement and learning increase with the use of technology.
2. Technology supports differentiation of learning.
3. Active participation and contributions to the learning process increase with the use of technology.
4. Project and inquiry based learning experiences are enhanced with the use of technology.
5. Technology skills are best learned in context through project and inquiry based teaming.
6. Technology supports broader collaboration opportunities both locally and globally.
7. 21st century communication and collaboration requires fluency in the use of technology.



21ST CENTURY LEARNING

21st Century Student Outcomes and Support Systems



BLENDING, PERSONALIZED, & FLEXIBLE PATH LEARNING ENVIRONMENTS WITH ACCESS TO TECHNOLOGY 24/7

DISTRICT TECHNOLOGY GOALS

- Goal #1: Enhance access to technology 24/7 (mobile technologies)*
- Goal #2: Provide interactive multimedia capabilities in classrooms*
- Goal #3: Enhance technology integration & professional development*
- Goal #4: Provide access to electronic resources for research & information fluency*
- Goal #5: Transform the end user experience via virtualization*
- Goal #6: Curriculum integration and flexible learning paths*
- Goal #7: Provide personalized & blended learning environments*
- Goal #8: Use technology tools to enhance critical thinking, problem solving, and decision making*
- Goal #9: Use technology tools to enhance communication and collaboration*
- Goal #10: Use technology tools to enhance creativity and innovation*
- Goal #11: Provide students the technology tools and proficiencies to be college and career ready*
- Goal #12: Provide teachers and staff the tools necessary to effectively teach 21st century learners.*

WHAT IS THE SMART SCHOOLS BOND ACT (SSBA)?

The Smart Schools Bond Act was passed by voters in a statewide referendum held on Tuesday, November 4, 2014.

The Smart Schools Bond Act authorized the issuance of \$2 billion to finance improved educational technology and infrastructure to improve learning and opportunity for students throughout the State.

The Smart Schools Bond Act requires that school districts develop and receive approval of a Smart Bond Investment Plan from the Smart Schools Review Board.

The Plainege School District has been allocated \$1,693,869.

BOND ACT PURPOSE & PARAMETERS

The purpose of the Smart Schools Bond Act is to improve learning and opportunity for public and nonpublic 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.

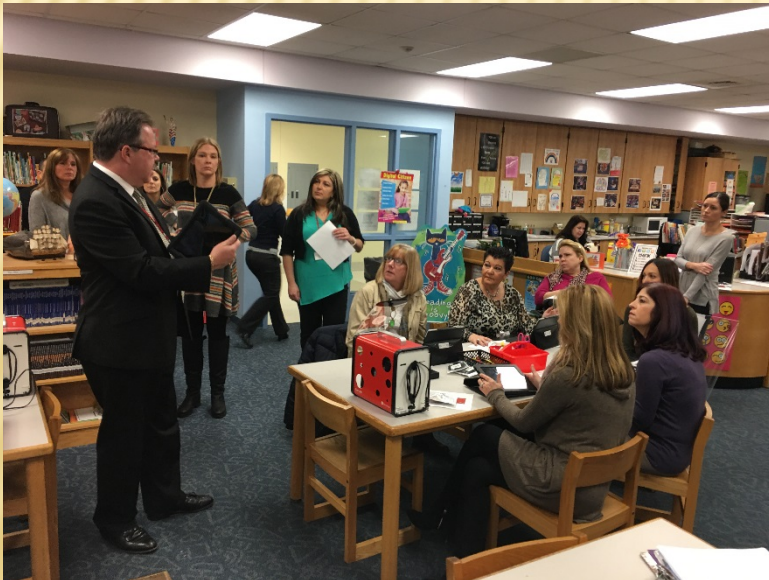
OTHER SSBA CONSIDERATIONS

- Adequate Infrastructure - 100 Mbps per 1,000 students standard = 350 Mbps for Plainedge; NOT funded via SSBA but we do receive some E-rate to offset these costs.
- Professional Development - Must be in place; NOT funded via SSBA
- Technical Support - Must be in place; NOT funded via SSBA
- Sustainability - District must show that all spending is sustainable without any further SSBA funding – Continue to support technology via annual budget
- No Deadline to Use Funds



II. The Keys to Success for Achieving a Smart School

1. Embrace and expand online learning which will break down geographic barriers, provide access to the best sources of instruction in the world, and level the playing field for students in rural and smaller school districts.
2. Utilize transformative technologies, such as tablets, laptops, and interactive whiteboards to deliver differentiated instruction tailored to students' specific abilities and needs that lets them learn and advance at their own pace.
3. Connect every school to high-speed broadband using technology that is capable of scaling up over time and deliver sufficient wireless capability to serve every student.
4. Extend connectivity beyond the four walls of the classroom so students from all backgrounds have equal access to the information superhighway.
5. Provide high-quality, continuous professional development to teachers, principals, and staff to ensure successful integration of technology into the teaching and learning experience.
6. Focus on in-demand STEM skills to ensure that students graduate with 21st century skills.
7. Plan, plan, and plan again.



FOUR AREAS OF SMART SCHOOLS SPENDING

Accommodate Pre-K Programs	Install High Tech Security Features	Acquire Learning Technologies Equipment *	Install High Speed Broadband or Wireless Connectivity
Plainedge does not qualify for funds for a Pre-K program	Plainedge utilizes various technologies such as security cameras, door access control, and VAPE/bully detection	Interactive Whiteboards, desktop or laptop computers, tablets, chromebooks, document cameras, 3D printers, etc	Infrastructure upgrades—switching and wireless technologies.
Plainedge does not have a pre-k program	Plainedge continues to enhance its high tech security features. \$ spent in this area does not have to be shared with non-public schools.	\$ spent in this area must be shared with non-public schools within district on a per pupil allocation	\$ spent in this area does not have to be shared with non-public schools.

TECHNOLOGY INITIATIVES SMART BOND

- ✓ Upgrade telecommunications switches to latest technology utilizing 10GB and SPB. Leverage new technology to enhance performance and media streaming.
- ✓ Upgrade Servers to be used to provide more virtual Windows Desktops for students for Distance Education and our expanding one to one program.
- ✓ Update Classroom Instructional Technology including PC/Zero Client devices, laptops, iPads, & Chromebooks. To acquire one to one devices for those grade levels that do not have one as of yet for Distance Education and to access Google Classroom from home.
- ✓ Update and enhance or security systems including video surveillance, door access control, and VAPE/Bully detection systems.
- ✓ Outfit our STEAM labs with state of the art technology to support STEAM initiatives including 3D printing, 3D visualization, and robotics.



TECHNOLOGY INITIATIVES SMART BOND

- Outfit STEAM Labs to include:
 - Netbook Cart
 - Video Conferencing Setup
 - Wireless Document Camera
 - Interactive LED 86" Flat Panel
 - Amplified Classroom Sound
 - Amplified Teacher Audio
 - iPad Pro Devices
 - Augmented Realty/VR Technology
 - Maker Space Kits
 - Drone with Hero 5 Camera
 - Zspace 3D STEM Stations
 - 3D Printer



SMART SCHOOLS INVESTMENT PLANS/PROJECTS:

PROJECT	SMART BOND	COMMENTS
Instructional Classroom Technology Devices	\$1,439,081	To support instructional classroom technology as well as our one to one program. To support technology devices for our distance learning initiatives to all students K-12.
Security	\$199,538	To replace outdate cameras, add cameras, add door access, and augment VAPE/bully detection
<i>Non Public School Allocation</i>	<i>\$44,683.99</i>	<i>Based on enrollment of 221 at max allocation of \$250 per non-public student. Previously Approved.</i>
<i>Non Public School Allocation</i>	<i>\$10,566.01</i>	<i>Additional Allocation for Non Public Schools</i>
Total	\$1,693,869	<i>* \$1,628,052.99 is district allocation</i>

Commentary or Feedback ?

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