VALLEY STREAM DISTRICT 30 ★

the friendly schools

2016-7

TECHNOLOGY UPDATE

"ANY SUFFICIENTLY ADVANCED TECHNOLOGY IS INDISTINGUISHABLE FROM MAGIC."

Arthur C. Clarke

21ST CENTURY LEARNING OBJECTIVES AREA: INFORMATION, MEDIA AND TECHNOLOGY SKILLS

STUDENTS WILL RECEIVE INSTRUCTION THAT PROVIDES ACCESS TO TECHNOLOGY–DRIVEN LEARNING ENVIRONMENTS, WHICH WILL DEVELOP THEIR ABILITY TO DEMONSTRATION FUNCTIONAL AND CRITICAL THINKING SKILLS IN THE FOLLOWING AREAS: INFORMATION LITERACY, MEDIA LITERACY AND INFORMATION, COMMUNICATIONS AND TECHNOLOGY (ICT) LITERACY.

TO ENHANCE OUR CORE CURRICULUM, ENABLING VALLEY STREAM 30 STUDENTS TO DEVELOP 21ST CENTURY SKILLS THAT PROMOTE LIFE-LONG LEARNING.

GOAL 1

"IMPLEMENTING YEAR": THESE OBJECTIVES ARE IN THE PROCESS OF BEING MET

Strategic Plan 2015–2020

To enhance our core CURRICULUM, enabling Valley Stream 30 students to develop 21st century skills that promote life-long learning.

Process Objectives	Progress
Expand and monitor K-6 integration of technology to enhance teaching and learning experiences. *Focus: Implementing Year*	- Software service usage reports being provided to all district and building administrators - Classroom teacher Macbook Air program to be launched in 2016-7, providing every classroom teacher with a powerful laptop to drive curriculum design and classroom instruction - Google Apps for Education user accounts have been provided for every teacher and student in the district - Expansion of the eSchoolData Parent Portal, a centralized repository for standardized test scores, student report cards, and other student data easily accessed by parents and teachers - iPads provided to library specialists to support students' Information, Media and Technology Skills - 21st classroom pilot program at each school; concepts have been submitted by Shaw Avenue teachers, and development conferences begin in January

GOAL 1

To enhance our core CURRICULUM, enabling Valley Stream 30 students to develop 21st century skills that promote life-long learning.

Process Objectives	Progress
Provide on-going instructional technology professional development for teachers (i.e., classroom implementation). *Focus: Developing & Implementing Year*	- Offer weekly Tech Talks covering a broad range of technology topics at a different school each week - Provide virtual professional development with live support through Teq's online platform - Provide push-in professional development centered on to every classroom teacher in the district in January through unique partnership with Teq - Provide tightly focused PD based on teacher needs as determined by Technology Committee, CIAC, and PDP meetings - Relaunched the Technology Committee to build deeper understanding of teacher and classroom needs - Roll out OASYS module as part of MyLearningPlan - Full-time librarian hired for Forest Road

GOAL 1

To enhance our core CURRICULUM, enabling Valley Stream 30 students to develop 21st century skills that promote life-long learning.

Process Objectives	Progress
Equitable access of technological hardware. *Focus: Implementing Year*	- iPad 1:1 initiative to be launched for grades 3-6 in 2016-7 after a successful grade 4 pilot in 2015-6 - Chromebook cart program launched fall 2015 - LAN and Internet redundancy project to ensure the highest possible levels of uptime at all district sites

To enhance our core CURRICULUM, enabling Valley Stream 30 students to develop 21st century skills that promote life-long learning.

ACCOUNTABILITY MEASURE(S)

IMPLEMENTATION ACTIVITIES:

Annual reports to the Board of Education documenting activities, their outcomes, and any recommendations for modifications. **IN PROGRESS**

LEARNING OUTCOMES:

Utilizing district-constructed learning inventories, 90% of VS30 Students will demonstrate age- appropriate growth in functional and critical thinking skills in Information Literacy, Media Literacy and information, Communications and Technology (ICT) Literacy. **ON TARGET FOR 2016**

TO ENHANCE COMMUNICATIONS AMONG ALL
MEMBERS OF THE VALLEY STREAM 30 COMMUNITY.

GOAL 2

GOAL 2: To enhance COMMUNICATIONS among all members of the Valley Stream 30 community.

Process Objectives	Progress
Develop a biannual parent survey to assess district/building climate and parent satisfaction with communication.	- The Technology Committee is currently developing these surveys
Distribute major district notifications in electronic formats (i.e., email, text, website, parent portal).	- Worked with PTA at Forest Road to trial broadcast PTA meetings online - Expanding the eSchoolData parent portal to include report cards, standardized test scores, and other student data - A Technology Committee is testing parent-facing Learning Management Systems including Edmodo, Nearpod, and Google Classroom to determine which best suit the needs of our district - Changed the Technology department's structure to include a NYS data coordinator

GOAL 2: To enhance COMMUNICATIONS among all members of the Valley Stream 30 community.

Process Objectives	Progress
Create and update brochures and websites related to district programs and services to inform parents.	- Investigating SchoolWires and other website vendors for the purposes of modernizing the district's website and developing a related VS30 app - Board of Education Technology Update bulletin is the prototype for a regular monthly bulletin to be shared with staff via Google Drive
Enhance the district's translation services at parent workshops and other events.	- Integrating K12 Insight's Let's Talk! software into the district website, and providing the app for registration services and other events

GOAL 2: To enhance COMMUNICATIONS among all members of the Valley Stream 30 community.

Process Objectives	Progress
Create and distribute periodic curriculum newsletters highlighting best practices and relevant curricular resources.	- The Technology Committee has a subcommittee dedicated to publishing four newsletters a year updating all stakeholders on technological upgrades, changes, and other news
Develop a biannual staff survey to assess district/ building climate and staff satisfaction with communication.	- The Technology Committee is currently developing these surveys

To enhance our core CURRICULUM, enabling Valley Stream 30 students to develop 21st century skills that promote life-long learning.

ACCOUNTABILITY MEASURES

IMPLEMENTATION ACTIVITIES:

Annual reports to the Board of Education documenting activities, their outcomes, and any recommendations for modifications. **IN PROGRESS (RIGHT NOW!)**

PARENTAL RESPONSE:

At least 75% of parents will express satisfaction with the district's overall communication, as measured by the biannual parent survey. **ON TARGET FOR 2016-7**

FIVE FOCAL POINTS

1. 1:1 IPAD ROLLOUT

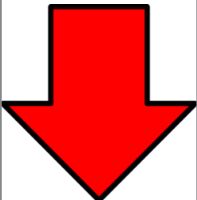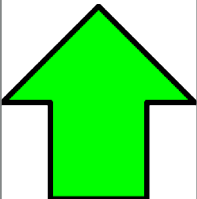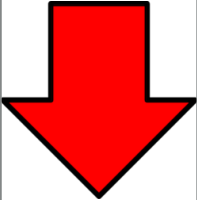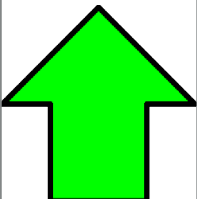2. ACCESS POINT REFRESH

3. GOOGLE APPS FOR EDUCATION INITIATIVE

4. INTERNET REDUNDANCY PROJECT

5. 1:1 TEACHER MACBOOK PROJECT

BUDGET NOTES

▸ The Smart Bond will cover the majority of our 1:1 initiative and the upgrades to our network WAN and internet infrastructure

▸ Our projected budget increase is covered by the Smart Bond; the remaining funds will be used to support our new whole-district refresh cycle, which provides for staggered annual updates to all district equipment, and builds in funding for future initiatives (like 3D printers and Apple TV integration) in 2017-8 and beyond

▸ We have a built refresh cycle that will see all essential components of our district technology stack upgraded or replaced with budget constancy

BUDGET MOVEMENT

Category	Cost	Reason
Devices (iPads, Chromebooks, labs, teacher devices)	⬆	Teacher Macbook initiative will require an initial outlay. Our 1:1 expansion will be covered by Smart Bond funds. Teacher MacBook deployment will obviate the need for a classroom desktop refresh (which would have been necessary in 2018-9; the Macbook cycle begins in 2020-21), Chromebooks save the district tens of thousands of dollars per refresh cycle.
Apps and software (eSpark, Compass Learning, Achieve 3000, etc.)	⬇	Ownership of existing app licenses will reduce our app investment by 50% or more. The rest of our software budget should remain consistent year over year.
Personnel (Tier I-III techs, tech aides, data coordinators)	⬆	We have added 500 devices to the district and will be adding 330 more this summer, in addition to major server upgrades and an increased focus on data analysis and utilization. To accomplish this, we have elevated one tech to Tier II and brought in new part-time data personnel.
Equipment	⬇	No significant expenditures projected for 2016-7.
Network and infrastructure (switches, servers, access points)	⬆	Our 100% three year WAP refresh plan will require an upfront investment. Our WAP and Internet redundancy plans will be covered by Smart Bond funds. We will complete a server refresh in 2016-7 that will create a seven year window without upgrades or replacements needed. These upgrades will provide immediate speed and stability improvements, as well as enhanced security and safety.

SYSTEMS UPDATES

- Hardware
- Software
- Professional Development
- Network
- Personnel

HARDWARE

▸ Chromebooks in the Classroom - 200 devices rolled out in 2015

▸ iPad 1:1 for grades 3-6 and 1:2 for grades K-2; 4th grade 1:1 pilot program (500 devices added by 2016-7)

▸ Ten new laptop carts (three Macbook Bretford carts, seven Chromebook carts)

▸ PARCC-ready based on current device ratio

▸ Classroom desktop computers replaced by Macbook Airs for teachers by 2016-7

▸ Print stations added in one additional location per school

▸ Three year wireless access point refresh beginning in 2016-7

▸ New high capacity copiers installed in all buildings

▸ New digital signs at each building

▸ Apple TV trials launching in February

SOFTWARE

▸ New software request process - teachers submit their requests via Google Form; requests are seen by building principal and district administrator prior to purchase/implementation, to ensure no program redundancy

▸ Technology Committee - assisting in the evaluation and selection of new software

▸ Using data to drive instruction - usage reports are being provided to administrators to help us assess the efficacy of our software services, and to drive usage

▸ Compass Learning - expanded to all grades in 2015-6

▸ Teq - utilizing their online platform as a teacher learning center (also referenced in PD)

▸ LMS selection - trials are underway via the Tech Committee, and we will choose a learning management system for broader implementation in 2016-7

▸ New inventory system being tested in December 2015 for deployment in February 2016

PROFESSIONAL DEVELOPMENT

▸ Teq's robust online platform will be used beginning in 2016 and provides teachers with 150+ lessons through online video courses, along with live remote support

▸ Push-in program in February-March will bring hands-on tech integration assistance to the district's nearly 125 educators through Nassau BOCES

▸ We provided five unique Google Apps for Education workshops on Superintendent's Conference Day and followed up with two hour sessions of grade-banded PD two weeks later

▸ We conducted staff-led MyLearningPlan PD in December

▸ Tech Talks are being conducted at a different building each week by the Director of Technology and his staff

▸ Surveying teachers via the Tech Committee to collaboratively plan PD

NETWORK

▸ Internet redundancy projects create true network backup plan for the first time in district history

▸ Shaw Avenue NOC relocated in summer 2015; new 10GB fiber runs replaced 1GB runs

▸ Wireless Access Point refresh will replace all b/g/n WAPs with ac WAPs capable of faster speeds

PERSONNEL

▸ Our department has been reorganized to support the expanded analysis and contextualization of student data

▸ New NYS data coordinator in district once a week

▸ New eSchoolData coordinator, in district three days a week

▸ My research indicates that the average Nassau County district spends 8.7 hours per week on data per 500 students; we now allocate 9 hours per week per 500 students to data, so we are slightly above average in how we handle data

▸ Our team is built to manage the addition of 350+ new iPads without increasing team size

THANK YOU.