

SUMTER DISTRICT SCHOOLS DIGITAL CLASSROOM PLAN

2014-2015

Sumter County School Board

2680 West County Road 476

Bushnell, Florida 33513

352-793-2315

1 DIGITAL CLASSROOMS PLAN - OVERVIEW

1.1 District Mission and Vision Statement

Vision—Preparing the Next Generation Today

Mission Statement—The Sumter School District is committed to providing a rigorous and relevant standards-based education in a safe environment. Through a partnership of students, parents, staff and community, students are given the opportunity to reach their full potential as lifelong learners and contributing members of society.

1.2 District Profile

Sumter County had a population estimate of 93,420 residents in 2010 and has remained a rapidly growing county with a population estimated to have increased to 107,056 by 2013. Even with this growth, the majority of the district remains rural with a sizable portion of the population living in unincorporated areas. The demographics of Sumter County have continued to follow the patterns established over the past fifteen years. A vast majority of the population growth has continued to occur primarily within The Villages, a large age restricted (55+) community in the northeast corner of the county and is reflected with the percentage of residence over 65 at 51.6% (2013). Since few school age students live in or near this development, the student growth in non-charter schools has been in stable to a slight decline in recent years. The developer of the adult community operates a “Charter in the Workplace” School to serve the families of their employees and subcontractors. While this school comprises approximately 34 % of our district student population, the majority of the students reside in neighboring counties.

The economic status of the school families in Sumter County non-charter schools remain relatively lower socio-economic with approximately 74% of the students qualifying for the National School Lunch Program.

Percent of Students Qualifying for the National School Lunch Program ¹								
School	Grades	Student Population	Percent Qualifying for NSLP		School	Grades	Student Population	Percent Qualifying for NSLP
Bushnell Elementary	PK-5	775	66%		South Sumter Middle School	6-8	829	70%
Lake Panasoffkee Elementary	PK-5	578	73%		Wildwood Middle High	6-12	738	77%
Webster Elementary	PK-5	724	83%		Sumter Alternatives	6-12	47	91%
Wildwood Elementary	PK-5	859	87%		South Sumter High	9-12	1056	64%
Charter School Information (See Footnote)								
The Villages Charter School	K-12	2674	27%					

¹ Data is from E-Rate Discount Calculation Worksheet for 2014-2015 E-Rate Year.

1.3 District Team Profile

Title / Role	Name	Email / Telephone
Information Technology District Contact	Mr. Jimmy Greene, Director Media & Technology	jimmy.greene@sumter.k12.fl.us 352-793-2315 x 50268
Curriculum District Contact	Ms. Christina McKinney, Director Secondary Education	christina.mckinney@sumter.k12.fl.us 352-793-2315 x 50213
Instructional District Contact	Ms. Helen Christian, Director Elementary Education	helen.christian@sumter.k12.fl.us 352-793-2315 x 50204
Finance District Contact	Ms. Deborah Smith, Senior Director Business Operations	deborah.smith@sumter.k12.fl.us 352-793-2315 x 50246
District Leadership Contact	Ms. Deborah Moffitt, Senior Director Curriculum & Instruction	deborah.moffitt@sumter.k12.fl.us 352-793-2315 x 50260

1.4 Planning Process

The process for developing the Sumter District Digital Classroom Plan included input from many different groups of stakeholders. Most importantly, this plan has been developed in consort with existing planning instruments of the district, primarily the district's strategic plan, most recently updated and approved by the school board on May 20, 2014. This is the driving structure for the systematic guidance of the district. The strategic plan was developed through a collaborative approach that included parents, community leaders, business partners, teachers, support personnel, as well as school and district leadership. We see this Digital Classroom Plan as a means to meet the action plans within our overall strategic plan as our district moves forward at fulfilling our mission.

Additionally, specifically related to the instructional technology directions of the district, the Digital Classroom Planning process reviewed and coordinated its efforts with the District Technology Plan, already in place. The findings and needs assessments related to the Digital Classroom Plan will be used to direct any revisions to keep the plans in consort.

The specific development of this plan included direct stakeholder input through several processes:

1. School based technology and assessment instructional staff were consulted in the early stages of the planning process. This provided some direction as we led into the findings of the various needs assessments within the Digital Classroom Planning process.
2. District curriculum and instruction personnel input and ongoing planning processes provided guidance toward instructional technology and instructional materials needs and directions to meet the identified needs in our schools.
3. District personnel specifically those directing and coordinating our exceptional education, ESOL and Multi-Tiered System of Supports (MTSS) for direction on the technology needs of their programs.
4. Each school has an instructional technology steering committee which will be requested to review the plan and provide guidance and input with its implementation.
5. As timelines and meeting dates allow, the plan will be available to be discussed in School Advisory Committee meetings or provided to School Advisory Committee members for guidance.

6. The document will be available online for community input prior to presentation to the school board for approval.

1.5 Multi-Tiered System of Supports (MTSS)

The Sumter County School District believes in providing interventions to students who are not meeting the standards the district believes are necessary for a successful completion of a high school diploma program. Research has shown that approximately 80% of students are successful with the general education classroom approach and with the general educational materials. However, some students' learning styles and processes require different strategies and different materials.

In order to provide the most effective education for ALL children, we believe we must start with providing an effective education for EACH child. In the Sumter County School District, we utilize a three-tier approach with varying levels of support beyond that used as the core curriculum. The approach used is referred to as Multi-Tiered System of Supports (hereafter MTSS). In the first tier (Tier 1) school-wide and classroom-based strategies are used. Tier 1 includes the core academic and behavioral programs. If a child is struggling with the core curriculum, he or she may need additional assistance, which can be provided in Tier 2. In Tier 2, we employ a standard protocol intervention approach. In Tier 2, we utilize student data to group students based upon a target skill need and provide appropriate research-based interventions. Students are matched to instruction with a high likelihood of successful remediation. We apply the Tier 2 interventions for an appropriate number of weeks in order to give the child additional instruction using research-based materials and strategies to allow the child to achieve the educational standards necessary for success. Many children respond well to Tiers 1 and 2 and are successful in meeting standards with the supplemental help.

In the event that a child needs additional help to meet the standards we utilize a third tier which provides additional and more frequent help. In Tier 3, we employ an intervention team approach. We call this team the Teamwork, Intervention, and Problem Solving (hereafter TIPS) Team. The TIPS Team meets to review a child's progress and tailor an individual academic/behavioral support plan that provides supplemental instruction to the child in the area or areas of need. Tier 3 instruction is also used for an appropriate number of weeks.

Part II. DIGITAL CLASSROOMS PLAN –STRATEGY

Needs Analysis: Student Performance Outcomes

Student Performance Outcomes		Baseline	Target	Date Target to be Achieved
1.	ELA Student Achievement	64	75	*
2.	Math Student Achievement	66	75	*
3.	Science Student Achievement	50	53	*
4.	ELA Learning Gains	68	71	*
5.	Math Learning Gains	65	68	*
6.	ELA Learning Gains of the Low 25%	65	68	*
7.	Math Learning Gains of the Low 25%	60	63	*

8	Overall 4-Year Graduation Rate	79	80	6/2015
9	Acceleration Success Rate	49	50	*
10	Algebra 1 EOC (Spring)	75	76	6/2015
11	Geometry EOC (Spring)	68	69	6/2015

* Due to new assessments and baselines, target calculations cannot be ascertained for comparative student performance growth in ELA & Mathematics at this time. Continued progress and increased support for the Florida Standards will be supported through the Digital Classroom Plan. Targets for areas covered by new assessments are related to any correlated statistical data that may become available.

Needs Analysis: Digital Learning and Technology Infrastructure

Infrastructure Needs Analysis		Baseline	Target	Date for Target to be Achieved
1.	Student to Computer Ratio	1.7	1.0	2019
2.	Student Instructional Desktop Computers Meeting Specifications	2144	2144	2015
3.	Student Instructional Mobile Computers Meeting Specifications	910	5500	2019
4.	Student Web-Thin Client Computers Meeting Specifications	0	0	-
5.	Student of Student Large Screen Tablets Meeting Specifications	450	450	2015
6.	Percent of Schools Meeting Recommended Bandwidth Standards	100	100	2015
7.	Percent of Wireless Classrooms (802.11n or Higher)*	68	85	2016

* 35 - 801.11n Access Points have been purchased to replace 801.11g Access Points. These are being deployed at the current time, which when deployed, will set the 68% baseline. The current installed base at the time of this plan is 41% at 801.11n or better.

Needs Analysis: Skilled Workforce and Economic Development

Professional Development Needs Analysis		Baseline (5 point scale)	Target	Date for Target to be Achieved
1.	Average Teacher Technology Integration via the Technology Integration Matrix	3	3.25	2017
2.	Average Teacher Technology Integration via the Technology Integration Matrix (Elementary)	3	3.25	2017
3.	Average Teacher Technology Integration via the Technology Integration Matrix (Middle)	3	3.25	2017
4.	Average Teacher Technology Integration via the Technology Integration Matrix (High)	3	3.5	2017
5.	Average Teacher Technology Integration via the Technology Integration Matrix (Combination)	3	3.5	2017

Needs Analysis: Seamless Articulation and Maximum Access

Digital Tools Needs Analysis		Baseline	Target	Date for Target to be Achieved
1.	Implementation status a system that enables teachers and administrators to access information about benchmarks and use it to create aligned curriculum guides.	Highly implemented	Will continue to support and employ in classrooms	-
2.	Implementation status of a system that provides teachers and administrators the ability to create instructional materials and/or resources and lesson plans.	Partially implemented	Will continue to implement and revise	2017
3.	Implementation status of a system that supports the assessment lifecycle from item creation, to assessment authoring and administration, and scoring.	Highly implemented	Will continue to support and employ in classrooms	-
4.	Implementation status of a system that includes district staff information combined with the ability to create and manage professional development offerings and plans.	Partially implemented	Will continue to implement and revise	2017
5.	Implementation status of a system that includes comprehensive student information that is used to inform instructional decisions in the classroom, for analysis and for communicating to students and parents about classroom activities and progress.	Highly implemented	Will continue to support and employ in classrooms	-
6.	Implementation status of a system that leverages the availability of data about students, district staff, benchmarks, courses, assessments and instructional resources to provide new ways of viewing and analyzing data.	Highly implemented	Will continue to support and employ in classrooms	-
7.	Implementation status of a system that houses documents, videos, and information for	Partially	Will continue to	2018

	teachers, students, parents, district administrators and technical support to access when they have questions about how to use or support the system.	implemented	implement and revise	
8.	Implementation status of a system that includes or seamlessly shares information about students, district staff, benchmarks, courses, assessments and instructional resources to enable teachers, students, parents, and district administrators to use data to inform instruction and operational practices.	Partially implemented	Will continue to implement and revise	2018
9.	Implementation status of a system that provides secure, role-based access to its features and data for teachers, students, parents, district administrators and technical support.	Partially Implemented	Will continue to support and employ in classrooms	2017

Needs Analysis: Quality Efficient Services

Online Assessments Needs Analysis		Baseline	Target	Date for Target to be Achieved
1.	Computer-Based Assessment Certification Tool Completion Rate for Schools in the District	100%	100%	-
2.	Computers/devices required for assessments (based on schedule constraints)	100% - may impact instructional programs during assessment windows	100% - with no constraints on instructional programs	2018

Goal Setting:

The Sumter County Technology Plan can be viewed at:

<http://www.sumter.k12.fl.us/PDF/Sumter-Tech-Plan.pdf> and the Sumter County Schools' Strategic Plan can be viewed at: <http://www.sumter.k12.fl.us/PDF/Strategic-Plan-complete.pdf>

The technological goals are identified within these existing planning documents will be supported through the Digital Classroom allocation.

Strategy Setting:

Goal Addressed	Strategy	Measurement	Timeline
Continue support of technology integration that will improve student academic performance under the Florida State Standards	1) Provide additional mobile computers to be used with the existing elementary technology program using the E-Z Tech curriculum. (support for 4 th grade)	A minimum of 22 additional mobile computers per elementary program will be added.	2015
	2) Accelerate the district's 1 to 1 initiative by supporting the addition of student mobile devices and provide additional software licensing for support applications (i.e. antivirus, network management applications, etc) for additional devices as to be added through the 1 to 1 initiative.	Meet 1 to 1 devices for students in grades 4-12 and develop a support plan to maintain the 1 to 1 initiative	2018

Goal Addressed	Strategy	Measurement	Timeline	
Follow a strategy supporting the future needs for reliable and robust wireless access throughout the academic areas of our schools.	1) Provide additional wired ceiling access to support the coverage areas needed using the 5 GHz frequency band for 801.11n and future needs of 801.11ac.	Add additional ceiling wired connections to meet the coverage areas for 5 GHz wireless.	2016	
	2) Provide 1 Gb wired switching capabilities with Power over Ethernet (PoE) for current and anticipated wireless access points, initially to support 1 access point per every 50 student capacity area, with planning in place to support 1 access point per 25 student capacity.	Add PoE 1 GB Switches to support the necessary backbone for 801.11 n and 801.11 ac bandwidth throughput		
	3) Expand and enhance the wireless management systems necessary for reliable and robust wireless access	Enhance the wireless management system to support future wireless access points in both support and licensing		2015

Digital Classrooms Plan – Allocation Proposal

Student Performance Outcomes:

Student Performance Outcomes		Baseline	Target
Algebra 1 EOC	spring 2015	75	76
Geometry EOC	spring 2015	68	69

Digital Learning and Technology Infrastructure

Infrastructure Implementation					
	Deliverable	Estimated Completion Date	Estimated Cost	School/District	Outcome
1	Additional wired ceiling network drops to support the installation of wireless access points that meet density and coverage requirements using the 5 GHz frequency bands in district middle and high schools	6/2015	25,000.00	South Sumter Middle Wildwood Middle High South Sumter High	
2	Upgrade wireless management system with the capacity to support a minimum of 300 access points	6/2015	27,000.00	District	
3	Additional PoE 1 Gb Switches to support the bandwidth throughput necessary for 801.11n & 801.11ac wireless access points	6/2015	35,000.00	South Sumter Middle Wildwood Middle High South Sumter High	

Infrastructure Evaluation and Success Criteria		
Deliverable (above)	Monitoring and Evaluation Process(es)	Success Criteria
1	Installation and testing of connections	Successful installation
2	Installation, configuration and successful management	Successful managed wireless system
3	Installation, configuration, moving both existing and any additional access points to new switches	Successful wireless access with throughput rates meeting expectations

Funding from this allocation is scheduled to support the underlying infrastructure as we move from 2.4 GHz network coverage

to 5 GHZ network coverage requirements. Funds from other sources are being used for the 2014-2015 purchase of access points.

As required by F.S. 1011.62 (12) (b), the use of Digital Classroom funds for infrastructure purchases requires a third party evaluation of the district's technology needs. At the current time engineers from Hewlett Packard have been reviewing our data and need analysis. The lead engineer on the review is Mr. Dan Simon, Solutions Architect with Hewlett Packard Networking group in Jacksonville, Florida. District IT staff has met with Mr. Simon, Jud Clemmer and Roberto Lopez and they are finalizing their review. Through this discussion we have already revised our proposal to better meet the needs to provide scalability and compatibility to allow our infrastructure meet changes and enhancements successfully.

Professional Development

The district understands the importance of adequate professional development for the successful implementation of technological tools and digital content integration. Professional development needs are to be addressed separately through the Professional Development for Digital Learning Grant and within integrated professional development within broader instructional initiatives.

Digital Tools

Digital tools will be supported through this Digital Classroom Plan through the availability of enhanced wireless access and devices leading toward 1 to 1 student access. Specific expenditures for digital tools outside of these parameters will not use funds from this allocation.

Digital Tools Implementation					
	Deliverable	Estimated Completion Date	Estimated Cost	School/District	Outcome
1	Devices to support digital curriculum in 4 th grade	2/2015	56,000.00	Bushnell Elementary Lake Panasoffkee Elem. Webster Elementary Wildwood Elementary	Implementation of devices and use with the EZ Tech Digital Curriculum
2	Devices to enhance the district's 1 to 1 initiative	2/2015	50,000.00	South Sumter Middle Wildwood Middle High South Sumter High	Implementation of 1 to 1 in Algebra 1, 2 & Geometry

Digital Tools Implementation		
Deliverable (above)	Monitoring and Evaluation Process(es)	Success Criteria
1	Purchase, implementation and successful use with digital content and assessments	Successful implementation & integration within courses and assessment schedules

Online Assessments

Online assessment will be supported through the implementations in the previously allocated areas. Specifically, the enhanced wireless access will be used to allow for the assessments to occur in the classrooms using the mobile devices purchased through the digital classroom allocation in addition to existing and devices purchased through other funding sources. The new ELA assessments will require audio support and will demand additional headsets for students taking the assessments. Funds from this allocation will be used to support the purchase of such headsets.

Online Assessments Implementation					
	Deliverable	Estimated Completion Date	Estimated Cost	School/District	Outcome
1	Headsets meeting district and assessment specifications	3/2015	\$7,000.00	District Wide	
	Devices and Wireless Improvements as identified above				

Online Assessments Implementation		
Deliverable (above)	Monitoring and Evaluation Process(es)	Success Criteria
1	Purchase and implementation of headsets for ELA assessments	Availability of necessary headsets for ELA & other audio required assessments