

Smart Schools Improvement Plan Board of Education Final Proposal

Center Moriches School District

Board of Education Meeting, January 27, 2016

Mr. Soto, Assistant Superintendent for Instructional Technology



Smart Schools Bond Act



❖ Center Moriches Allocation: \$1,034,558

❖ State funding will be done through a reimbursement model:

“Once an approved purchase is made and the request for reimbursement is received and approved, the New York State Education Department will authorize payment and the funds will be paid to districts within 90 days in most cases.”

Center Moriches School District - Smart Schools Improvement Plan Proposal Items

<u>Technology Projects</u>		<u>Cost</u>	<u>End of Life (EOL)</u>	<u>* Annualize Cost</u>
1	<u>District Wide Wireless:</u> Provide access to district owned devices and limited guest access to the internet.	\$250,000	5 yrs.	\$50,000
2	<u>Tablets or Windows Based Laptops on a Cart:</u> Purchase a class set, 30 devices, for each grade in the district, K-12. The cost will include the device, a protective case, one management cost per device, and a cart per grade.	\$240,000 (30 x 16, 480 x \$450.00- \$1,500x16 = \$24,000)	3 yrs.	\$80,000
3	<u>STEM Elective Equipment:</u> computerized numerical control (CNC) machine, mini lathe or mill, green screen, video equipment, 3D Printer, high capacity computers and printers. (MB and MK Items: spectrum analyzer, signal generator, oscilloscope, graphic tablet, LEGO Story-Starter, Dash and Dot Robot Bundle, Bee Bots, Etc.)	\$93,158	5 yrs.	\$18,631
4	<u>Document Cameras:</u> We currently have 48 devices that are widely used in the district. The proposal will be to outfit each class with a document camera, which will be an increase of approximately 50 document cameras.	\$15,000 (300 x 50)	1 yr.	\$15,000
5	<u>Digital Microscopes:</u> Allows teachers to project objects on the overhead and/or smart boards. Outfit all the science labs at the secondary complex and the new elementary science room.	\$1,400 (20 x \$70)	1 yr.	\$1,400








Center Moriches School District - Smart Schools Improvement Plan Proposal Items - Continued

<u>Technology Projects</u>		<u>Cost</u>	<u>End of Life (EOL)</u>	<u>*Annualize Cost</u>
6	Increased Security Measures	\$90,000	3 yrs.	\$30,000
7	<u>Replace Current System:</u> Wireless Bridge.	\$70,000	5 yrs.	\$14,000
8	<u>Elementary Intercom System:</u> Replacement of the current intercom/telephone system.	\$40,000	0	\$13,333
9	<u>Internal Infrastructure:</u> SAN Drive, 11 Network Switches, Remote Access Server.	\$100,000	5 yrs.	\$20,000
10	<u>Classroom Desktop Replacements:</u> Purchase of 150 desktop computers for classroom use. There will be 304 computers that will be at the EOL (end of life) by the close of the 2016 school year.	\$135,000	5 yrs.	\$27,000
Total:		\$1,034,558		\$269,364
Remaining Balance:		\$0		








**The cost identified is based on replacement of the item over a new warranty agreement (3-5 yrs.). The cost may be realized in year four or six.*

Educational Benefits

Lesson Construction/Methodology:

-  Accessibility to different forms of media and presentation tools
-  Access to worldwide information and research
-  Allows for digital learning opportunities (digital fieldtrips and distance learning)
-  Encourages differentiation of lessons, material, and instructional expectations
-  Prepares students for future vocational explorations
-  Allows for experimentation in lessons and methodology
-  Provides access to technology, within the classroom, to enhance necessary computer skills; i.e. typing, saving documents, organizing work within defined folders, discerning reliable informational sources, and utilizing a variety of educational tools








Student Engagement:

-  Shift occurs from teacher directed instructional to a facilitation model
-  Students are active participants of their learning
-  Student centered:
 -  Intrinsically motivated
 -  Students help develop and guide their learning
 -  Enhances collaboration and increases the social/emotional capacity of students
-  As 'digital natives,' the use of technology naturally replicates their learning style

Maintenance/Professional Development Plan

Maintenance Plan: *Most of the proposed items will come with a five year warranty. For a minimal yearly payment, we will have service contracts to support the maintenance needs of the items that do not have a warranty plan.*





Warranty:

-  Wireless
-  Tablets
-  STEM Equipment
-  Wireless Bridge
-  Internal Infrastructure
-  Desktop Computers
-  Security Measures

Service Contracts:

-  Security Measures – After three years
-  Intercom System

Professional Development Plan: Ensure that the curriculum, instruction, and technology are fully integrated.

-  Training Model for Teachers/Staff
-  Utilize Model Schools for P.D.
-  Provide Curriculum Writing Incentives
-  Develop a Pilot Program