

# Technology Plan

for  
07/01/2013 thru 06/30/2016

## Orangeburg Consolidated School District 5 Orangeburg, South Carolina



[www.ocsd5schools.org](http://www.ocsd5schools.org)

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This Technology Plan has been reviewed and submitted on behalf Orangeburg Consolidated School District 5.

Signatures:

OCSD5 Superintendent: \_\_\_\_\_

Date: 8/23/13

OCSD5 Board Chair: \_\_\_\_\_

Date: 8-23-2013



# Technology Plan FY 2012-2015

Orangeburg Consolidated School District 5

Cynthia Wilson  
Superintendent



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## **District Mission**

Orangeburg Consolidated School District Five exists to ensure academic success for all students.

## **District Vision**

Working Together to Build a World Class-School System

## **Technology Vision**

It is our vision that students and teachers will have access to up-to-date technology to be used to increase student achievement. Teachers and students will use technology as an integral part of the lesson cycle to enhance learning. In addition to its use in improving instruction, technology will be used to introduce students to the ways that technology is used as an adjunct to critical thinking and problem solving in the working world. Technology resources will be well maintained and reliable such that teachers and students can count on their availability in instruction.

## **District Beliefs**

- Student learning in a safe environment is our primary focus
- Embracing change creates an environment for growth
- Proficient use of technology is essential to success in a global society
- Building positive character is essential
- Parents are our partners

## **District Strategic Goals**

**Goal 1: Increase Student Learning:** By the year 2016, OCSD5 will meet performance standards yearly on local, state and national tests while closing the achievement gap.

**Goal 2: Improve Resource Management:** The district will base all financial decisions on an annual zero based budget protocol to ensure they are matched with district goals and the strategic plan.

**Goal 3: Improve Human Capital:** The district will focus on retaining, training and developing the best personnel at all levels by utilizing a yearly evaluation system, as well as recruiting highly qualified personnel according to national, state, and district guidelines.

**Goal 4: Increase Engagement:** By the year 2016, the district will increase opportunities that promote stakeholder involvement and engagement each year.

**Goal 5: Safety Above All Else:** By the year 2016, all stakeholders will be satisfied with the safety and security of the school climate in OCSD5 as measured by national, state, and local data in the areas of learning environment, home-school relations, social, and physical environment.



## Executive Summary

The Orangeburg Consolidated School District Five Technology Plan has been created to meet all filing requirements of e-Rate and to provide the District with a strategic road map for technology. In OCSD5 we are working together to build a World-Class education for all of the students. We fully understand that in order for our students to be successful, we must provide instruction that is meaningful and engaging. An overarching goal of the plan is for each classroom to be a 21<sup>st</sup> Century Classroom that motivates and engages. Twenty-first Century classrooms are defined as having a laptop, printer, document camera, whiteboard, wireless internet, and desktop computers. To this end, we are committed to removing obsolete computers so that our classrooms will not contain technology over five years old. We are further committed to increasing the student to computer ratio over a three year period. In year one, each school should have at least three computers in each classroom. In year two, each classroom should have at least four computers in each classroom. In year three, each classroom should have at least five computers in each classroom.

Therefore, the Instructional Technology Department evaluated district needs and categorized them into five areas: school security, classroom and computer lab equipment, network infrastructure, software, and training. The identified needs were then used to develop actions plans for the following five technology dimensions.

**1. Learners and Their Environment**

Technology will be a significant tool for educators and students to enhance and advance student performance on academic standards in all content areas.

**2. Professional Capacity**

All educators will use technology in significant ways to promote the improvement of student performance on academic standards in all content areas. Technology competencies will be assessed regularly for all administrators, teachers, and support staff.

**3. Instructional Capacity**

Appropriate technologies will be available in all teaching and learning settings to enhance learning opportunities related to academic standards in all content areas.

**4. Community Connections**

Technology will be a tool for parents to become involved in their child's learning. Technology will be a tool for communication with parents and the broader community. Both uses of technology will enhance and advance student performance on academic standards in all content areas.

**5. Support Capacity**

As technology becomes an integral tool in teaching and learning, sufficient support resources will be available to maintain access to and use of that technology. Sufficient support will mean that resources will be available to enhance and advance student performance on academic standards in all content areas.



## Executive Summary

With this in mind it is imperative that our technology be updated to meet the demands of the newly adopted Common Core State Standards. The new assessment will be given in 2014-2015 and will require students to take on-line assessments. Consequently, it is incumbent upon us to create an environment where all of our students are successful. Our technology plan has four key outcomes listed below:

**1. The Plan is Useable**

In order to be used, understood, and embraced, the District's plan must be usable by not only technology experts, but also by the wide range of professionals who make up OCSD5. To achieve this outcome, the plan has been drafted in a "drill down" format, allowing users to easily find key information and "drill down" to specific details, if desired.

**2. The Plan Focuses on Instructional and Business Needs**

The Instructional Technology Department understands, and embraces, their role as a service organization within in the District. Technology exists to provide tools to increase departmental efficiency and student learning outcomes.

**3. The Plan is a "Living" Document, Subject to Continuous Review and Update**

Because of ever evolving technology and ever changing district needs, the technology plan includes provisions for regular, annual reviews and updates.

**4. The Initiatives Contained in the Plan are Realistic**

All initiatives identified in this plan have been extensively reviewed by OCSD5 staff to ensure that they:

- i) are financially and resource realistic;
- ii) contribute to the District's vision;
- iii) contribute to student learning outcomes.

This technology plan includes organizational initiatives and a decision making framework that enables the Instructional Technology Department to provide high quality service and to be seen as advocates for the appropriate use of technology within the District.

# District Profile

**School District:** Orangeburg Consolidated School District 5  
**City, State, Zip:** Orangeburg, SC 29115  
**Phone:** 803-534-5454  
**Fax:** 803-516-6010  
**District Number:** 3805

District Information	
Number of schools and other sites	17
Elementary	8
Middle	2
Middle/High	2
High	1
Technology/Vocational School	1
Alternative School	1
District Office Complex (Two District Office Buildings, Maintenance Shop, and Warehouse Buildings)	1
Bus Shop	1
Total student enrollment in district	6900
Total number of classrooms	552
Percent of students eligible for free and reduced lunch	83%
Percent of English as Second Language (ESL) students	1.8%
Percent of dropouts	1.7%
Graduation rate	85%
District e-rate discount	89%

Technology Information	
Technology Expenditures	\$2,780,803.11
Technology Expenditures Per Pupil	\$403
Number of Campuses with Direct Connection to Internet	15
Percentage of Campuses with Direct Connection to Internet	100%
Number of Classrooms with Direct Connection to Internet	552
Percentage of Classrooms with Direct Connection to Internet	100%
Computer/Student Ratio	Varies from school to school
Computer/Teacher Ratio	1 to 1

## Network Server Configuration-District

Quantity	Server	Purpose	Operating System	RAM, Disk Storage
2	HP DL380 Server	PowerSchools and Instructional software application	Microsoft Windows (2005)	4 GB RAM, 784 GB
1	HP DL380 G5	Document Images	Microsoft Windows 2003	4 GB RAM, 438GB
1	HP DL 380	Groupwise E-mail, DSMASTER	Novell Netware 7x	4 GB RAM, 72 GB
2	Compaq 6000 Servers	Trouble Ticket System and MicroMain	Windows 2000	1 GB RAM, 36 GB
1	HP DL380 G5	SIF AGENT	Microsoft Windows 2003	4 GB RAM, 438GB
1	HP DL380 G5	Meals Plus and IGPRO	Microsoft Windows 2003	4 GB RAM, 438GB
2	HP servers	Instructional Application services	Windows 2000	2 GB RAM, 108 GB
1	Compaq DL 380	Instructional Application services	Windows 2003	4 GB RAM, 72 GB
2	HP Servers	Instructional Application services	Windows 2003	2 GB RAM, 108 GB
1	One Compaq ML750 Server	Outside DNS	Novell Netware 6.x	4 GB RAM, 36 GB
1	HP DL380 Server	Library Automation System	Windows 2003	4 GB RAM, 584 GB
1	HP Backup 10 Tape System	HP AIO Storage Server	Windows 2000	4GB RAM, 3 TB
1	DL 380 server	Trend Micro	Windows 2003	1 GB RAM, 72 GB
4	Compaq 6000 Servers	SIS (SASi) Zen/Ghost image	Novell 7.x	1 GB RAM, 36 GB

## Network Server Configuration-School

School Type	Quantity	Server	Operating System	RAM, Disk Storage
Elementary	8	HP DL380 Servers	Novell Netware 7x	4 GB RAM, 580 GB
Middle/High School	2	HP DL380 Servers	Novell Netware 7x	4 GB RAM, 580 GB
Middle Schools	2	HP DL380 Servers	Novell Netware 7x	4 GB RAM, 580 GB
High School	1	HP DL380 Servers	Novell Netware 7x	4 GB RAM, 580 GB

## E-Rate - Free and Reduced Meal Eligibility Data

The E-Rate Discount Program provides discounts for telecommunications, Internet access, and network equipment to K-12 public schools across the nation. Districts can claim discounts for ordinary telephone service to schools, building wiring for computer networks, file servers, and network operating system software. The discounts are calculated based on the number of students eligible for free and reduced price lunches at each school and district in the state. Discounts can range from 20% to 90%.

## Classroom Configuration

### Elementary Schools

- 3 to 4 computers: (3 HP 5000 & 6000 series)
- 1 Printer: ( Brother HLS150DN/HLS250DN network printer, HP 1200, 1100 or 1300 series printer)
- 1 Telephone
- 1 20' or 24 " Television
- 1 Computer lab for every 300 students: (20 HP P4 computers and network printer or mobile cart with 30 HP laptops)

### Middle Schools

- 3 computers: (3 HP 5000 series)
- 1 Printer: (Brother HLS150DN/HLS250DN network printer, HP 1200, 1100 or 1300 series printer)
- 1 Telephone
- 1 20' or 24 " Television
- 1 Computer lab for every 300 students: (20 HP P4 computers and network printer or mobile cart with 30 HP laptops)

### High Schools

- 3 computers: (3 HP 5000 series)
- 1 Printer: (Brother HLS150DN/HLS250DN network printer, HP 1200, 1100 or 1300 series printer)
- 1 Telephone
- 1 20' or 24 " Television
- 1 Computer lab for every 300 students: (20 HP P4 computers and network printer or mobile cart with 30 HP laptops)

## Media Center Configuration

<b>Elementary Schools</b>
<ul style="list-style-type: none"> <li>• 5 computers</li> <li>• 1 network printer</li> <li>• Teknet Media Retrieval system</li> </ul>
<b>Middle School</b>
<ul style="list-style-type: none"> <li>• 10- 15 computers</li> <li>• 1 network printer</li> <li>• Teknet Media Retrieval system</li> </ul>
<b>High Schools</b>
<ul style="list-style-type: none"> <li>• 10 - 20 computers</li> <li>• 1 or 2 network printer</li> <li>• Teknet Media Retrieval system</li> </ul>

## Computer Labs Configuration

School	Number of Labs	Number of Labs with computers <5 years old	Number of Labs with computers >=5 years old
BBE	1	1	
Brookdale	1	1	
Dover	1	1	
Marshall	2	2	
Mellichamp	1	1	
Riveion	2	2	
Sheridan	1	1	
Whittaker	2	2	
BBMH	2	2	
Clark	2	2	
Howard	4	2	2
North MH	2	2	
OW	5	4	1
Tech Center	6	2	4
Nix	1	1	

# District Profile

The district currently leases 963 desktops and 180 laptops. A three-year lease was signed in November 2009 with computers being delivered in January 2010. The lease will expire January 2013. At that time, we may re-new our lease agreement or purchase new computers. Previously leased computers may be purchased by district employees at a discounted price.

## Leased Computers

School	Lab Computers	Classrooms	Laptops Carts (30 Laptops in a Cart)	Media Center Computers	Attendance Office Computers	Totals
OW	100	21	3 (90 laptops)	18	5	234
BBMH	75	6	1 (30 laptops)	11	1	123
NMH	50	0	1 (30 laptops)	11	2	93
Clark	95	0	1 (30 laptops)	16	2	143
Howard	65	0	0	16	2	83
Tech Ctr	21	0	0	0	1	22
Nix	0	0	0	0	2	2
Whittaker	25	0	0	6	2	33
Brookdale	25	15	0	6	2	48
Marshall	75	45	0	7	2	129
Sheridan	25	50	0	7	2	84
Riveion	20	0	0	6	2	28
BBE	25	0	0	8	2	35
Dover	27	18	0	6	2	53
Mellichamp	25	0	0	6	2	33
<b>Number of Units</b>	<b>653</b>	<b>155</b>	<b>180</b>	<b>124</b>	<b>31</b>	<b>1143</b>
<b>Unit Cost</b>	<b>\$728.07</b>	<b>\$728.07</b>	<b>\$1,102.95</b>	<b>\$728.07</b>	<b>\$728.07</b>	
<b>Total</b>	<b>\$475,429.71</b>	<b>\$ 112,850.85</b>	<b>\$198,531.00</b>	<b>\$ 90,280.68</b>	<b>\$22,570.17</b>	<b>\$899,662.41</b>

Total Lease	\$ 899,662.41
Tax (7%)	\$ 62,976.37
Prop. Tax	\$ 24,000.00
<b>Grand Total</b>	<b>\$ 986,638.78</b>
Cost for each year of the lease (3 Year Lease)	\$ 299,887.47

# District Profile

Since the focus of this technology plan is on technological resources available in classrooms, the technology department inventoried all schools during the months of March and April 2012 to ascertain the presence, age and condition of technology equipment. Pages 10-31 show the number of classrooms per school, the numbers and types of items in each classroom, and the numbers required to bring all classrooms to our instructional standard.

## Printers

School	Number of Classrooms	Printers <5yrs	Printers >=5yrs	No Printers	Year 1 Printers Needed	Year 2 Printers Needed	Year 3 Printers Needed
OW	111	66	26	19	45	22	22
North MH	25	11	8	6	14	4	4
Dover	27	6	19	2	21	2	2
BBES	32	15	4	13	17	5	5
BBMH	36	25	8	3	11	8	8
Clark	57	36	14	7	21	12	12
Howard	30	26	3	1	4	9	9
Rivelon	18	2	13	3	16	1	1
Meilichamp	18	8	10	0	10	3	3
Whittaker	33	20	12	1	13	7	7
Tech Center	31	19	9	3	12	6	6
New Vision	20	3	5	12	17	1	1
Brookdale	25	21	4	0	4	7	7
Sheridan	41	24	17	0	17	8	8
Marshall	48	34	13	1	14	11	11
<b>Total</b>	<b>552</b>	<b>316</b>	<b>165</b>	<b>71</b>	<b>236</b>	<b>104</b>	<b>104</b>
Unit Cost					\$ 259.00	\$259.00	\$259.00
Item Total					\$ 61,124.00	\$27,008.52	\$27,008.52

## Document Cameras

School	Number of Classrooms	Doc Cameras	No Doc Cameras	Year 1 Doc Cameras Needed	Year 2 Doc Cameras Needed	Year 3 Doc Cameras Needed
<b>OW</b>	111	59	52	52	19	19
<b>North MH</b>	25	10	15	15	3	3
<b>Dover</b>	27	13	14	14	4	4
<b>BBES</b>	32	14	18	18	5	5
<b>BBMH</b>	36	21	15	15	7	7
<b>Clark</b>	57	21	36	36	7	7
<b>Howard</b>	30	13	17	17	4	4
<b>Riveion</b>	18	15	3	3	5	5
<b>Mellichamp</b>	18	14	4	4	5	5
<b>Whittaker</b>	33	20	13	13	7	7
<b>Tech Center</b>	31	3	28	28	1	1
<b>New Vision</b>	20	5	15	15	2	2
<b>Brookdale</b>	25	20	5	5	7	7
<b>Sheridan</b>	41	31	10	10	10	10
<b>Marshall</b>	48	39	9	9	13	13
<b>Total</b>	552	298	254	254	98	98
<b>Unit Cost</b>				<b>\$540.00</b>	<b>\$540.00</b>	<b>\$540.00</b>
<b>Item Total</b>				<b>\$137,160.00</b>	<b>\$53,103.60</b>	<b>\$53,103.60</b>

# District Profile

## Laptops

School	Number of Classrooms	Laptop <5yrs	Laptop >=5 yrs	No Laptop	Year 1 Laptops Needed	Year 2 Laptops Needed	Year 3 Laptops Needed
<b>OW</b>	<b>111</b>	<b>44</b>	<b>14</b>	<b>53</b>	<b>67</b>	<b>15</b>	<b>15</b>
<b>North MH</b>	<b>25</b>	<b>11</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>4</b>	<b>4</b>
<b>Dover</b>	<b>27</b>	<b>6</b>	<b>10</b>	<b>11</b>	<b>21</b>	<b>2</b>	<b>2</b>
<b>BBES</b>	<b>32</b>	<b>17</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>6</b>	<b>6</b>
<b>BBMH</b>	<b>36</b>	<b>22</b>	<b>3</b>	<b>11</b>	<b>14</b>	<b>7</b>	<b>7</b>
<b>Clark</b>	<b>57</b>	<b>28</b>	<b>9</b>	<b>20</b>	<b>29</b>	<b>9</b>	<b>9</b>
<b>Howard</b>	<b>30</b>	<b>13</b>	<b>8</b>	<b>9</b>	<b>17</b>	<b>4</b>	<b>4</b>
<b>Rivelon</b>	<b>18</b>	<b>2</b>	<b>14</b>	<b>2</b>	<b>16</b>	<b>1</b>	<b>1</b>
<b>Meilichamp</b>	<b>18</b>	<b>15</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>5</b>
<b>Whittaker</b>	<b>33</b>	<b>7</b>	<b>16</b>	<b>10</b>	<b>26</b>	<b>2</b>	<b>2</b>
<b>Tech Center</b>	<b>31</b>	<b>9</b>	<b>1</b>	<b>21</b>	<b>22</b>	<b>3</b>	<b>3</b>
<b>New Vision</b>	<b>20</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>19</b>	<b>1</b>	<b>1</b>
<b>Brookdale</b>	<b>25</b>	<b>20</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>7</b>	<b>7</b>
<b>Sheridan</b>	<b>41</b>	<b>14</b>	<b>5</b>	<b>22</b>	<b>27</b>	<b>5</b>	<b>5</b>
<b>Marshall</b>	<b>48</b>	<b>33</b>	<b>11</b>	<b>4</b>	<b>15</b>	<b>11</b>	<b>11</b>
<b>Total</b>	<b>552</b>	<b>242</b>	<b>112</b>	<b>198</b>	<b>310</b>	<b>81</b>	<b>81</b>
<b>Unit Cost</b>					<b>\$ 975.00</b>	<b>\$975.00</b>	<b>\$975.00</b>
<b>Item Total</b>					<b>\$ 302,250.00</b>	<b>\$78,516.75</b>	<b>\$78,516.75</b>

## Whiteboards

School	Number of Classrooms	Standard Hitachi White-board	Outdated White-boards	No White-boards	Year 1 White-boards Needed	Year 2 White-boards Needed	Year 3 White-boards Needed
<b>OW</b>	<b>111</b>	<b>63</b>	<b>7</b>	<b>41</b>	<b>48</b>	<b>21</b>	<b>21</b>
<b>North MH</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>6</b>
<b>Dover</b>	<b>27</b>	<b>10</b>	<b>5</b>	<b>12</b>	<b>17</b>	<b>3</b>	<b>3</b>
<b>BBES</b>	<b>32</b>	<b>14</b>	<b>3</b>	<b>15</b>	<b>18</b>	<b>5</b>	<b>5</b>
<b>BBMH</b>	<b>36</b>	<b>4</b>	<b>22</b>	<b>10</b>	<b>32</b>	<b>1</b>	<b>1</b>
<b>Clark</b>	<b>57</b>	<b>23</b>	<b>5</b>	<b>29</b>	<b>34</b>	<b>8</b>	<b>8</b>
<b>Howard</b>	<b>30</b>	<b>6</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>2</b>	<b>2</b>
<b>Rivelon</b>	<b>18</b>	<b>7</b>	<b>8</b>	<b>3</b>	<b>11</b>	<b>2</b>	<b>2</b>
<b>Mellichamp</b>	<b>18</b>	<b>4</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>1</b>	<b>1</b>
<b>Whittaker</b>	<b>33</b>	<b>9</b>	<b>13</b>	<b>11</b>	<b>24</b>	<b>3</b>	<b>3</b>
<b>Tech Center</b>	<b>31</b>	<b>3</b>	<b>1</b>	<b>27</b>	<b>28</b>	<b>1</b>	<b>1</b>
<b>New Vision</b>	<b>20</b>	<b>5</b>	<b>1</b>	<b>14</b>	<b>15</b>	<b>2</b>	<b>2</b>
<b>Brookdale</b>	<b>25</b>	<b>13</b>	<b>9</b>	<b>3</b>	<b>12</b>	<b>4</b>	<b>4</b>
<b>Sheridan</b>	<b>41</b>	<b>26</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>9</b>	<b>9</b>
<b>Marshall</b>	<b>48</b>	<b>29</b>	<b>11</b>	<b>8</b>	<b>19</b>	<b>10</b>	<b>10</b>
<b>Total</b>	<b>552</b>	<b>234</b>	<b>122</b>	<b>196</b>	<b>318</b>	<b>77</b>	<b>77</b>
<b>Unit Cost</b>					<b>\$ 1,200.00</b>	<b>\$1,200.00</b>	<b>\$1,200.00</b>
<b>Item Total</b>					<b>\$ 381,600.00</b>	<b>\$92,664.00</b>	<b>\$92,664.00</b>

## Mounted Projectors

School	Number of Classrooms	Mounted Projector	No Mounted Projector	Year 1 Mounted Projectors Needed	Year 2 Mounted Projectors Needed	Year 3 Mounted Projectors Needed
<b>OW</b>	<b>111</b>	<b>57</b>	<b>54</b>	<b>54</b>	<b>19</b>	<b>19</b>
<b>NorthMH</b>	<b>25</b>	<b>18</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>6</b>
<b>Dover</b>	<b>27</b>	<b>12</b>	<b>15</b>	<b>15</b>	<b>4</b>	<b>4</b>
<b>BBES</b>	<b>32</b>	<b>15</b>	<b>17</b>	<b>17</b>	<b>5</b>	<b>5</b>
<b>BBMH</b>	<b>36</b>	<b>24</b>	<b>12</b>	<b>12</b>	<b>8</b>	<b>8</b>
<b>Clark</b>	<b>57</b>	<b>20</b>	<b>37</b>	<b>37</b>	<b>7</b>	<b>7</b>
<b>Howard</b>	<b>30</b>	<b>20</b>	<b>10</b>	<b>10</b>	<b>7</b>	<b>7</b>
<b>Rivelon</b>	<b>18</b>	<b>15</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>5</b>
<b>Mellichamp</b>	<b>18</b>	<b>15</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>5</b>
<b>Whittaker</b>	<b>33</b>	<b>21</b>	<b>12</b>	<b>12</b>	<b>7</b>	<b>7</b>
<b>Tech Center</b>	<b>31</b>	<b>2</b>	<b>29</b>	<b>29</b>	<b>1</b>	<b>1</b>
<b>New Vision</b>	<b>20</b>	<b>7</b>	<b>13</b>	<b>13</b>	<b>2</b>	<b>2</b>
<b>Brookdale</b>	<b>25</b>	<b>22</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>7</b>
<b>Sheridan</b>	<b>41</b>	<b>29</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>10</b>
<b>Marshall</b>	<b>48</b>	<b>35</b>	<b>13</b>	<b>13</b>	<b>12</b>	<b>12</b>
<b>Total</b>	<b>552</b>	<b>312</b>	<b>240</b>	<b>240</b>	<b>103</b>	<b>103</b>
<b>Unit Cost</b>				<b>\$ 1,025.00</b>	<b>\$1,025.00</b>	<b>\$1,025.00</b>
<b>Item Total</b>				<b>\$ 246,000.00</b>	<b>\$105,534.00</b>	<b>\$105,534.00</b>

## Desktop Computers

School	Number of Classrooms	Desktops <5yrs	Desktops >=5yrs	Year 1 Desktops Needed (at 3 per classroom)	Year 2 Desktops Needed (at 4 per classroom)	Year 3 Desktops Needed (at 5 per classroom)
OW	111	96	141	237	111	111
NorthMH	25	44	15	31	25	25
Dover	27	32	57	49	27	27
BBES	32	14	85	82	32	32
BBMH	36	130	26	-22*	14	36
Clark	57	85	93	86	57	57
Howard	30	36	48	54	30	30
Rivelon	18	15	37	39	18	18
Mellichamp	18	18	42	36	18	18
Whittaker	33	96	90	3	33	33
Tech Center	31	141	62	-48*	-17*	31
New Vision	20	55	30	5	18	20
Brookdale	25	84	17	-9*	16	25
Sheridan	41	64	65	59	41	41
Marshall	48	72	51	72	48	48
<b>Total</b>	<b>552</b>	<b>982</b>	<b>859</b>	<b>674</b>	<b>488</b>	<b>552</b>
<b>Unit Cost</b>				<b>\$ 685.00</b>	<b>\$685.00</b>	<b>\$685.00</b>
<b>Item Total</b>				<b>\$ 515,805.00</b>	<b>\$334,382.75</b>	<b>\$378,120.00</b>

\*Note: Negative amounts are not calculated in the total or item total cost.

## Bethune-Bowman Elementary

Number of Classrooms: 32

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	17	\$ 259.00	\$ 4,403.00
Doc Cameras Needed	18	\$ 540.00	\$ 9,720.00
Laptops Needed	15	\$ 975.00	\$ 14,625.00
Whiteboards Needed	18	\$ 1,200.00	\$ 21,600.00
Mounted Projectors Needed	17	\$ 1,025.00	\$ 17,425.00
Desktops Needed (at 3 per classroom)	82	\$ 685.00	\$ 56,170.00
	<b>Total</b>		<b>\$ 123,943.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	5	\$ 259.00	\$ 1,282.05
Doc Cameras Needed	5	\$ 540.00	\$ 2,494.80
Laptops Needed	6	\$ 975.00	\$ 5,469.75
Whiteboards Needed	5	\$ 1,200.00	\$ 5,544.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	32	\$ 685.00	\$ 21,920.00
	<b>Total</b>		<b>\$ 41,784.35</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	5	\$ 259.00	\$ 1,282.05
Doc Cameras Needed	5	\$ 540.00	\$ 2,494.80
Laptops Needed	6	\$ 975.00	\$ 5,469.75
Whiteboards Needed	5	\$ 1,200.00	\$ 5,544.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	32	\$ 685.00	\$ 21,920.00
	<b>Total</b>		<b>\$ 41,784.35</b>

# District Profile

## Brookdale Elementary

Number of Classrooms: 25

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	4	\$ 259.00	\$ 1,036.00
Doc Cameras Needed	5	\$ 540.00	\$ 2,700.00
Laptops Needed	5	\$ 975.00	\$ 4,875.00
Whiteboards Needed	12	\$ 1,200.00	\$ 14,400.00
Mounted Projectors Needed	3	\$ 1,025.00	\$ 3,075.00
Desktops Needed (at 3 per classroom)	-9	\$ 685.00	\$ -
		<b>Total</b>	<b>\$ 26,086.00</b>

\*Note: Negative amounts are not calculated in the total or item total cost.

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	7	\$ 259.00	\$ 1,794.87
Doc Cameras Needed	7	\$ 540.00	\$ 3,564.00
Laptops Needed	7	\$ 975.00	\$ 6,435.00
Whiteboards Needed	4	\$ 1,200.00	\$ 5,148.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 7,441.50
Desktops Needed (at 3 per classroom)	16	\$ 685.00	\$ 10,960.00
		<b>Total</b>	<b>\$ 35,343.37</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	7	\$ 259.00	\$ 1,794.87
Doc Cameras Needed	7	\$ 540.00	\$ 3,564.00
Laptops Needed	7	\$ 975.00	\$ 6,435.00
Whiteboards Needed	4	\$ 1,200.00	\$ 5,148.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 7,441.50
Desktops Needed (at 3 per classroom)	25	\$ 685.00	\$ 17,125.00
		<b>Total</b>	<b>\$ 41,508.37</b>

## Dover Elementary

Number of Classrooms: 27

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	21	\$ 259.00	\$ 5,439.00
Doc Cameras Needed	14	\$ 540.00	\$ 7,560.00
Laptops Needed	21	\$ 975.00	\$ 20,475.00
Whiteboards Needed	17	\$ 1,200.00	\$ 20,400.00
Mounted Projectors Needed	15	\$ 1,025.00	\$ 15,375.00
Desktops Needed (at 3 per classroom)	49	\$ 685.00	\$ 33,565.00
		<b>Total</b>	<b>\$ 102,814.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	2	\$ 259.00	\$ 512.82
Doc Cameras Needed	4	\$ 540.00	\$ 2,316.60
Laptops Needed	2	\$ 975.00	\$ 1,930.50
Whiteboards Needed	3	\$ 1,200.00	\$ 3,960.00
Mounted Projectors Needed	4	\$ 1,025.00	\$ 4,059.00
Desktops Needed (at 3 per classroom)	27	\$ 685.00	\$ 18,495.00
		<b>Total</b>	<b>\$ 31,273.92</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	2	\$ 259.00	\$ 512.82
Doc Cameras Needed	4	\$ 540.00	\$ 2,316.60
Laptops Needed	2	\$ 975.00	\$ 1,930.50
Whiteboards Needed	3	\$ 1,200.00	\$ 3,960.00
Mounted Projectors Needed	4	\$ 1,025.00	\$ 4,059.00
Desktops Needed (at 3 per classroom)	27	\$ 685.00	\$ 18,495.00
		<b>Total</b>	<b>\$ 31,273.92</b>

## Marshall Elementary

Number of Classrooms: 48

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	14	\$ 259.00	\$ 3,626.00
Doc Cameras Needed	9	\$ 540.00	\$ 4,860.00
Laptops Needed	15	\$ 975.00	\$ 14,625.00
Whiteboards Needed	19	\$ 1,200.00	\$ 22,800.00
Mounted Projectors Needed	13	\$ 1,025.00	\$ 13,325.00
Desktops Needed (at 3 per classroom)	72	\$ 685.00	\$ 49,320.00
		<b>Total</b>	<b>\$ 108,556.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	11	\$ 259.00	\$ 2,905.98
Doc Cameras Needed	13	\$ 540.00	\$ 6,949.80
Laptops Needed	11	\$ 975.00	\$ 10,617.75
Whiteboards Needed	10	\$ 1,200.00	\$ 11,484.00
Mounted Projectors Needed	12	\$ 1,025.00	\$ 11,838.75
Desktops Needed (at 3 per classroom)	48	\$ 685.00	\$ 32,880.00
		<b>Total</b>	<b>\$ 76,676.28</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	11	\$ 259.00	\$ 2,905.98
Doc Cameras Needed	13	\$ 540.00	\$ 6,949.80
Laptops Needed	11	\$ 975.00	\$ 10,617.75
Whiteboards Needed	10	\$ 1,200.00	\$ 11,484.00
Mounted Projectors Needed	12	\$ 1,025.00	\$ 11,838.75
Desktops Needed (at 3 per classroom)	48	\$ 685.00	\$ 32,880.00
		<b>Total</b>	<b>\$ 76,676.28</b>

## Mellichamp Elementary

Number of Classrooms: 18

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	10	\$ 259.00	\$ 2,590.00
Doc Cameras Needed	4	\$ 540.00	\$ 2,160.00
Laptops Needed	3	\$ 975.00	\$ 2,925.00
Whiteboards Needed	14	\$ 1,200.00	\$ 16,800.00
Mounted Projectors Needed	3	\$ 1,025.00	\$ 3,075.00
Desktops Needed (at 3 per classroom)	36	\$ 685.00	\$ 24,660.00
		<b>Total</b>	<b>\$ 52,210.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	3	\$ 259.00	\$ 683.76
Doc Cameras Needed	5	\$ 540.00	\$ 2,494.80
Laptops Needed	5	\$ 975.00	\$ 4,826.25
Whiteboards Needed	1	\$ 1,200.00	\$ 1,584.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	18	\$ 685.00	\$ 12,330.00
		<b>Total</b>	<b>\$ 26,992.56</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	3	\$ 259.00	\$ 683.76
Doc Cameras Needed	5	\$ 540.00	\$ 2,494.80
Laptops Needed	5	\$ 975.00	\$ 4,826.25
Whiteboards Needed	1	\$ 1,200.00	\$ 1,584.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	18	\$ 685.00	\$ 12,330.00
		<b>Total</b>	<b>\$ 26,992.56</b>

# District Profile

## Rivelon Elementary

Number of Classrooms: 18

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	16	\$ 259.00	\$ 4,144.00
Doc Cameras Needed	3	\$ 540.00	\$ 1,620.00
Laptops Needed	16	\$ 975.00	\$ 15,600.00
Whiteboards Needed	11	\$ 1,200.00	\$ 13,200.00
Mounted Projectors Needed	3	\$ 1,025.00	\$ 3,075.00
Desktops Needed (at 3 per classroom)	39	\$ 685.00	\$ 26,715.00
		<b>Total</b>	<b>\$ 64,354.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	1	\$ 259.00	\$ 170.94
Doc Cameras Needed	5	\$ 540.00	\$ 2,673.00
Laptops Needed	1	\$ 975.00	\$ 643.50
Whiteboards Needed	2	\$ 1,200.00	\$ 2,772.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	18	\$ 685.00	\$ 12,330.00
		<b>Total</b>	<b>\$ 23,663.19</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	1	\$ 259.00	\$ 170.94
Doc Cameras Needed	5	\$ 540.00	\$ 2,673.00
Laptops Needed	1	\$ 975.00	\$ 643.50
Whiteboards Needed	2	\$ 1,200.00	\$ 2,772.00
Mounted Projectors Needed	5	\$ 1,025.00	\$ 5,073.75
Desktops Needed (at 3 per classroom)	18	\$ 685.00	\$ 12,330.00
		<b>Total</b>	<b>\$ 23,663.19</b>

# District Profile

## Sheridan Elementary

Number of Classrooms: 41

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	17	\$ 259.00	\$ 4,403.00
Doc Cameras Needed	10	\$ 540.00	\$ 5,400.00
Laptops Needed	27	\$ 975.00	\$ 26,325.00
Whiteboards Needed	15	\$ 1,200.00	\$ 18,000.00
Mounted Projectors Needed	12	\$ 1,025.00	\$ 12,300.00
Desktops Needed (at 3 per classroom)	59	\$ 685.00	\$ 40,415.00
		<b>Total</b>	<b>\$ 106,843.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	8	\$ 259.00	\$ 2,051.28
Doc Cameras Needed	10	\$ 540.00	\$ 5,524.20
Laptops Needed	5	\$ 975.00	\$ 4,504.50
Whiteboards Needed	9	\$ 1,200.00	\$ 10,296.00
Mounted Projectors Needed	10	\$ 1,025.00	\$ 9,809.25
Desktops Needed (at 3 per classroom)	41	\$ 685.00	\$ 28,085.00
		<b>Total</b>	<b>\$ 60,270.23</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	8	\$ 259.00	\$ 2,051.28
Doc Cameras Needed	10	\$ 540.00	\$ 5,524.20
Laptops Needed	5	\$ 975.00	\$ 4,504.50
Whiteboards Needed	9	\$ 1,200.00	\$ 10,296.00
Mounted Projectors Needed	10	\$ 1,025.00	\$ 9,809.25
Desktops Needed (at 3 per classroom)	41	\$ 685.00	\$ 28,085.00
		<b>Total</b>	<b>\$ 60,270.23</b>

## Whittaker Elementary

Number of Classrooms: 33

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	13	\$ 259.00	\$ 3,367.00
Doc Cameras Needed	13	\$ 540.00	\$ 7,020.00
Laptops Needed	26	\$ 975.00	\$ 25,350.00
Whiteboards Needed	24	\$ 1,200.00	\$ 28,800.00
Mounted Projectors Needed	12	\$ 1,025.00	\$ 12,300.00
Desktops Needed (at 3 per classroom)	3	\$ 685.00	\$ 2,055.00
		<b>Total</b>	<b>\$ 78,892.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	7	\$ 259.00	\$ 1,709.40
Doc Cameras Needed	7	\$ 540.00	\$ 3,564.00
Laptops Needed	2	\$ 975.00	\$ 2,252.25
Whiteboards Needed	3	\$ 1,200.00	\$ 3,564.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 7,103.25
Desktops Needed (at 3 per classroom)	33	\$ 685.00	\$ 22,605.00
		<b>Total</b>	<b>\$ 40,797.90</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	7	\$ 259.00	\$ 1,709.40
Doc Cameras Needed	7	\$ 540.00	\$ 3,564.00
Laptops Needed	2	\$ 975.00	\$ 2,252.25
Whiteboards Needed	3	\$ 1,200.00	\$ 3,564.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 7,103.25
Desktops Needed (at 3 per classroom)	33	\$ 685.00	\$ 22,605.00
		<b>Total</b>	<b>\$ 40,797.90</b>

## Bethune-Bowman Middle/High

Number of Classrooms: 36

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	11	\$ 259.00	\$ 2,849.00
Doc Cameras Needed	15	\$ 540.00	\$ 8,100.00
Laptops Needed	14	\$ 975.00	\$ 13,650.00
Whiteboards Needed	32	\$ 1,200.00	\$ 38,400.00
Mounted Projectors Needed	12	\$ 1,025.00	\$ 12,300.00
Desktops Needed (at 3 per classroom)	-22	\$ 685.00	\$ -
		<b>Total</b>	<b>\$ 75,299.00</b>

\*Note: Negative amounts are not calculated in the total or item total cost.

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	8	\$ 259.00	\$ 2,136.75
Doc Cameras Needed	7	\$ 540.00	\$ 3,742.20
Laptops Needed	7	\$ 975.00	\$ 7,078.50
Whiteboards Needed	1	\$ 1,200.00	\$ 1,584.00
Mounted Projectors Needed	8	\$ 1,025.00	\$ 8,118.00
Desktops Needed (at 3 per classroom)	14	\$ 685.00	\$ 9,590.00
		<b>Total</b>	<b>\$ 32,249.45</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	8	\$ 259.00	\$ 2,136.75
Doc Cameras Needed	7	\$ 540.00	\$ 3,742.20
Laptops Needed	7	\$ 975.00	\$ 7,078.50
Whiteboards Needed	1	\$ 1,200.00	\$ 1,584.00
Mounted Projectors Needed	8	\$ 1,025.00	\$ 8,118.00
Desktops Needed (at 3 per classroom)	36	\$ 685.00	\$ 24,660.00
		<b>Total</b>	<b>\$ 47,319.45</b>

## Clark Middle

Number of Classrooms: 57

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	21	\$ 259.00	\$ 5,439.00
Doc Cameras Needed	36	\$ 540.00	\$ 19,440.00
Laptops Needed	29	\$ 975.00	\$ 28,275.00
Whiteboards Needed	34	\$ 1,200.00	\$ 40,800.00
Mounted Projectors Needed	37	\$ 1,025.00	\$ 37,925.00
Desktops Needed (at 3 per classroom)	86	\$ 685.00	\$ 58,910.00
		<b>Total</b>	<b>\$ 190,789.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	12	\$ 259.00	\$ 3,076.92
Doc Cameras Needed	7	\$ 540.00	\$ 3,742.20
Laptops Needed	9	\$ 975.00	\$ 9,009.00
Whiteboards Needed	8	\$ 1,200.00	\$ 9,108.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 6,765.00
Desktops Needed (at 3 per classroom)	57	\$ 685.00	\$ 39,045.00
		<b>Total</b>	<b>\$ 70,746.12</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	12	\$ 259.00	\$ 3,076.92
Doc Cameras Needed	7	\$ 540.00	\$ 3,742.20
Laptops Needed	9	\$ 975.00	\$ 9,009.00
Whiteboards Needed	8	\$ 1,200.00	\$ 9,108.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 6,765.00
Desktops Needed (at 3 per classroom)	57	\$ 685.00	\$ 39,045.00
		<b>Total</b>	<b>\$ 70,746.12</b>

# District Profile

## Howard Middle

Number of Classrooms: 30

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	4	\$ 259.00	\$ 1,036.00
Doc Cameras Needed	17	\$ 540.00	\$ 9,180.00
Laptops Needed	17	\$ 975.00	\$ 16,575.00
Whiteboards Needed	24	\$ 1,200.00	\$ 28,800.00
Mounted Projectors Needed	10	\$ 1,025.00	\$ 10,250.00
Desktops Needed (at 3 per classroom)	54	\$ 685.00	\$ 36,990.00
		<b>Total</b>	<b>\$ 102,831.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	9	\$ 259.00	\$ 2,222.22
Doc Cameras Needed	4	\$ 540.00	\$ 2,316.60
Laptops Needed	4	\$ 975.00	\$ 4,182.75
Whiteboards Needed	2	\$ 1,200.00	\$ 2,376.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 6,765.00
Desktops Needed (at 3 per classroom)	30	\$ 685.00	\$ 20,550.00
		<b>Total</b>	<b>\$ 38,412.57</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	9	\$ 259.00	\$ 2,222.22
Doc Cameras Needed	4	\$ 540.00	\$ 2,316.60
Laptops Needed	4	\$ 975.00	\$ 4,182.75
Whiteboards Needed	2	\$ 1,200.00	\$ 2,376.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 6,765.00
Desktops Needed (at 3 per classroom)	30	\$ 685.00	\$ 20,550.00
		<b>Total</b>	<b>\$ 38,412.57</b>

# District Profile

## North Middle/High

Number of Classrooms: 25

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	14	\$ 259.00	\$ 3,626.00
Doc Cameras Needed	15	\$ 540.00	\$ 8,100.00
Laptops Needed	14	\$ 975.00	\$ 13,650.00
Whiteboards Needed	7	\$ 1,200.00	\$ 8,400.00
Mounted Projectors Needed	7	\$ 1,025.00	\$ 7,175.00
Desktops Needed (at 3 per classroom)	31	\$ 685.00	\$ 21,235.00
		<b>Total</b>	<b>\$ 62,186.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	4	\$ 259.00	\$ 940.17
Doc Cameras Needed	3	\$ 540.00	\$ 1,782.00
Laptops Needed	4	\$ 975.00	\$ 3,539.25
Whiteboards Needed	6	\$ 1,200.00	\$ 7,128.00
Mounted Projectors Needed	6	\$ 1,025.00	\$ 6,088.50
Desktops Needed (at 3 per classroom)	25	\$ 685.00	\$ 17,125.00
		<b>Total</b>	<b>\$ 36,602.92</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	4	\$ 259.00	\$ 940.17
Doc Cameras Needed	3	\$ 540.00	\$ 1,782.00
Laptops Needed	4	\$ 975.00	\$ 3,539.25
Whiteboards Needed	6	\$ 1,200.00	\$ 7,128.00
Mounted Projectors Needed	6	\$ 1,025.00	\$ 6,088.50
Desktops Needed (at 3 per classroom)	25	\$ 685.00	\$ 17,125.00
		<b>Total</b>	<b>\$ 36,602.92</b>

## Orangeburg-Wilkinson High

Number of Classrooms: 111

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	45	\$ 259.00	\$ 11,655.00
Doc Cameras Needed	52	\$ 540.00	\$ 28,080.00
Laptops Needed	67	\$ 975.00	\$ 65,325.00
Whiteboards Needed	48	\$ 1,200.00	\$ 57,600.00
Mounted Projectors Needed	54	\$ 1,025.00	\$ 55,350.00
Desktops Needed (at 3 per classroom)	237	\$ 685.00	\$ 162,345.00
		<b>Total</b>	<b>\$ 380,355.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	22	\$ 259.00	\$ 5,641.02
Doc Cameras Needed	19	\$ 540.00	\$ 10,513.80
Laptops Needed	15	\$ 975.00	\$ 14,157.00
Whiteboards Needed	21	\$ 1,200.00	\$ 24,948.00
Mounted Projectors Needed	19	\$ 1,025.00	\$ 19,280.25
Desktops Needed (at 3 per classroom)	111	\$ 685.00	\$ 76,035.00
		<b>Total</b>	<b>\$ 150,575.07</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	22	\$ 259.00	\$ 5,641.02
Doc Cameras Needed	19	\$ 540.00	\$ 10,513.80
Laptops Needed	15	\$ 975.00	\$ 14,157.00
Whiteboards Needed	21	\$ 1,200.00	\$ 24,948.00
Mounted Projectors Needed	19	\$ 1,025.00	\$ 19,280.25
Desktops Needed (at 3 per classroom)	111	\$ 685.00	\$ 76,035.00
		<b>Total</b>	<b>\$ 150,575.07</b>

## Technology Center

Number of Classrooms: 31

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	12	\$ 259.00	\$ 3,108.00
Doc Cameras Needed	28	\$ 540.00	\$ 15,120.00
Laptops Needed	22	\$ 975.00	\$ 21,450.00
Whiteboards Needed	28	\$ 1,200.00	\$ 33,600.00
Mounted Projectors Needed	29	\$ 1,025.00	\$ 29,725.00
Desktops Needed (at 3 per classroom)	-48	\$ 685.00	\$ -
		<b>Total</b>	<b>\$ 103,003.00</b>

\*Note: Negative amounts are not calculated in the total or item total cost.

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	6	\$ 259.00	\$ 1,623.93
Doc Cameras Needed	1	\$ 540.00	\$ 534.60
Laptops Needed	3	\$ 975.00	\$ 2,895.75
Whiteboards Needed	1	\$ 1,200.00	\$ 1,188.00
Mounted Projectors Needed	1	\$ 1,025.00	\$ 676.50
Desktops Needed (at 3 per classroom)	-17	\$ 685.00	\$ -
		<b>Total</b>	<b>\$ 6,918.78</b>

\*Note: Negative amounts are not calculated in the total or item total cost.

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	6	\$ 259.00	\$ 1,623.93
Doc Cameras Needed	1	\$ 540.00	\$ 534.60
Laptops Needed	3	\$ 975.00	\$ 2,895.75
Whiteboards Needed	1	\$ 1,200.00	\$ 1,188.00
Mounted Projectors Needed	1	\$ 1,025.00	\$ 676.50
Desktops Needed (at 3 per classroom)	14	\$ 685.00	\$ 9,590.00
		<b>Total</b>	<b>\$ 16,508.78</b>

## Nix Academy of Excellence

Number of Classrooms: 20

Items Needed	Year 1		
	Total	Unit Cost	Item Total
Printers Needed	17	\$ 259.00	\$ 4,403.00
Doc Cameras Needed	15	\$ 540.00	\$ 8,100.00
Laptops Needed	19	\$ 975.00	\$ 18,525.00
Whiteboards Needed	15	\$ 1,200.00	\$ 18,000.00
Mounted Projectors Needed	13	\$ 1,025.00	\$ 13,325.00
Desktops Needed (at 3 per classroom)	5	\$ 685.00	\$ 3,425.00
		<b>Total</b>	<b>\$ 65,778.00</b>

Items Needed	Year 2		
	Total	Unit Cost	Item Total
Printers Needed	1	\$ 259.00	\$ 256.41
Doc Cameras Needed	2	\$ 540.00	\$ 891.00
Laptops Needed	1	\$ 975.00	\$ 975.00
Whiteboards Needed	2	\$ 1,200.00	\$ 1,980.00
Mounted Projectors Needed	2	\$ 1,025.00	\$ 2,367.75
Desktops Needed (at 3 per classroom)	20	\$ 685.00	\$ 13,700.00
		<b>Total</b>	<b>\$ 20,170.16</b>

Items Needed	Year 3		
	Total	Unit Cost	Item Total
Printers Needed	1	\$ 259.00	\$ 256.41
Doc Cameras Needed	2	\$ 540.00	\$ 891.00
Laptops Needed	1	\$ 975.00	\$ 975.00
Whiteboards Needed	2	\$ 1,200.00	\$ 1,980.00
Mounted Projectors Needed	2	\$ 1,025.00	\$ 2,367.75
Desktops Needed (at 3 per classroom)	1	\$ 259.00	\$ 256.41
		<b>Total</b>	<b>\$ 20,170.16</b>

# District Profile

<b>Items Needed</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>
<b>Printers Needed</b>	\$61,124.00	\$27,008.52	\$27,008.52
<b>Doc Cameras Needed</b>	\$137,160.00	\$53,103.60	\$53,103.60
<b>Laptops Needed</b>	\$302,250.00	\$78,516.75	\$78,516.75
<b>Whiteboards Needed</b>	\$381,600.00	\$92,664.00	\$92,664.00
<b>Mounted Projectors Needed</b>	\$246,000.00	\$105,534.00	\$105,534.00
<b>Desktops Needed (at 3 per classroom)</b>	\$515,805.00	\$322,737.75	\$366,475.00
<b>Training</b>	\$30,000.00	\$30,000.00	\$30,000.00
<b>Computer Labs</b>	\$45,000.00	\$45,000.00	\$45,000.00
<b>Virtual Course Delivery</b>	\$50,000.00	\$50,000.00	\$50,000.00
<b>Mobile Devices (iPods, iPads, Android tablets, etc.)</b>	\$50,000.00	\$100,000.00	\$150,000.00
<b>Leased Computers &amp; Servers</b>	\$350,000.00	\$350,000.00	\$350,000.00
<b>Classroom Response Systems</b>	\$72,000.00	\$72,000.00	\$72,000.00
<b>Total</b>	<b>\$2,240,939.00</b>	<b>\$1,326,564.62</b>	<b>\$1,420,301.87</b>

### **Current Support Strategies**

The district utilizes a modified tiered support strategy for technology systems. Technology problems, requests, and notifications are entered into a web-based trouble ticketing system where tasks are dispatched to the appropriate technician or specialist to resolve a given issue.

The District technicians are the first tier of support. The District currently employs four technicians with one serving as the lead technician. Each technician has a rotating schedule of schools that they serve on a given day of the week. For routine problems, the technicians service tickets for a particular school on their assigned day for that school. For time-critical issues, the technicians modify their schedules as needed. The lead technician coordinates the work of the technician group and serves as a specialist for classroom equipment installation, cabling, and networking.

The second tier of support comes in the form of district specialists. The district employs five technology specialists with different areas of expertise. While these employees' actual titles vary, they are listed here based on their specialty area.

- The network administrator supports all network infrastructure and network-based software.
- The telecommunications specialist is responsible for all aspects of telephony (land and wireless) as well as support for systems used for Public Relations (district website, public access cable channel, parent/staff auto-calling system.) This position also supports security/surveillance camera systems
- The classroom technology specialist (also the lead technician) supports classroom technologies such as projectors, electronic whiteboards, and document cameras. This specialist is also responsible, in cooperation with other specialists, for the physical cable plant of the district
- The student information system specialist is responsible for all aspects of the student database system (currently PowerSchool) as well as the production of reports for internal and external customers. This specialist works closely with operators at each school to ensure proper student coding, attendance recording, and management of digital student records.
- The teacher systems specialist works closely with the student information systems specialist and is responsible for supporting teacher gradebook systems, parent communication via the district web portal and other specific areas of the student information system.

Serving as another portion of our support team are our four Technology Instructional Facilitators (TIFs). These staff members are all experienced certified teachers who provide direct support and training for teachers on the use of technology in instruction. The TIFs often cross into all three tiers of support, as they are the first point of contact for instructional questions but also often serve as a point of escalation where additional training for users or management of an instructional software system is required.

The final tier of the support system is comprised of the Executive Director of Technology. This person is tasked with finding solutions to difficult problems either through his/her own technical expertise or by finding appropriate outside assistance.

### Needs Assessment

The district technology team performs an ongoing analysis of technology needs within the district. These needs are broken down into the following five areas.

#### I. School security

1. Continue to expand video surveillance as required in all schools
2. Begin migration of security alarm panels and electronic locks to network controlled systems

#### II. Classroom and computer lab equipment

1. Implement a sustainable computer replacement cycle for classroom and laboratories
2. Carefully implement emerging technologies (tablets, etc.) where their use can be demonstrated to improve student achievement
3. Implement a sustainable replacement cycle for classroom instruction equipment (electronic whiteboards, projectors, document cameras)
4. Provide budget resources specifically earmarked for replacement of instructional technology consumables based on predicted rates of failure (projector lamps, electronic whiteboard accessories, etc)

#### III. Network Infrastructure

1. Convert aging PBX telephone system to a modern voice over IP system
2. Implement modern security mechanism for wireless networks that would allow for authenticated, encrypted access for authorized user and a safe, firewalled guest network for visitors
3. Provide proper backup power systems (UPS) for core network systems throughout district
4. Replace core network switch chassis prior to end of support for current chassis
5. Upgrade network switching in district office data center to gigabit Ethernet speed
6. Migrate network operating system away from Novell NetWare to either Novell OES on Linux or Microsoft Windows Active Directory on Windows Server
7. Migrate email system from GroupWise to internally hosted Microsoft Exchange or hosted email service such as Google Apps or Microsoft Live.edu
8. Migrate server systems into a virtualized environment to take full advantage of hardware purchases
9. Expand current network monitoring system to encompass all network equipment in district
10. implement proper email archiving systems to more easily comply with records retention regulations
11. Provide SSL encryption on all web-based systems that provide access to student, employee, or other district records.
12. implement best practices for management of devices and applications for tablets (iPad, Android, and similar devices)

## Needs Assessment

### IV. Software

1. Implement a web-based lesson planning and teacher collaboration platform
2. Implement a web based benchmark assessment program
3. Implement access to users' network storage from both on- and off-campus.
4. Automate the management of employee network accounts via Integration with Human Resources information systems
5. Implement a web-based teaching resource collection to provide standardized resources linked to state standards and district pacing guides
6. Provide an online system for analysis of student performance (data warehouse)
7. Implement tiered Internet filtering to allow faculty and administrators more latitude in selecting appropriate resources that they, as professionals, might use in instruction while continuing to block access to potentially disruptive sites in general student use.

### V. Training

1. Training for technical support staff to increase the capability to provide service on existing and new technologies
2. Training for certified staff on authentic integration of technology into the instructional environment (Proviso 1.40 requirements)
3. Training that will allow support to staff to better use automation tools that are currently at their disposal (Office applications, email, calendaring, etc.)
4. Update equipment and facilities in district office technology training lab

### VI. Other

1. Enhance parent calling system to include notification for absences
2. Improve information available to parents, community and staff via the district's web presence
3. Migrate existing classroom video systems and televisions to a system that can provide video services via the installed digital projectors and teacher laptops, thus eliminating maintenance of traditional television networks and devices in schools.

## Technology Dimension 1: Learners and Their Environment

### A. Snapshot of Current Technology Use in District

Through the installation of instructional technologies in the majority of classrooms in the district, the level of technology integration has been greatly increased in some ways. Teachers now often are incorporating interactive whiteboard activities into their lessons as well as utilizing document cameras to display content to the classroom as a whole. However, this usage is often inconsistent from one classroom to another.

Even in classrooms where the potential of the teachers' technological skills is being implemented well, there remains a need for increased instructional usage. Increasing the opportunities for problem solving experiences utilizing computing, will put our graduates at a greater advantage. Our computer labs must be used to stress problem solving and research rather than mere software usage.

### B. Overall Goal for This Dimension

Students will have access to modern technology tools to enhance their learning and prepare them for further education and the world of work.

### C. Funding Considerations for Districts and Schools

The most challenging of these objectives is that of providing a reasonable replacement cycle for computing equipment in the district. Using recent leasing costs for laptops and desktops, we compute an average lease cost of approximately \$275 per computer per year for leasing.

Funding for emerging technologies may be easier to obtain, at least when these technologies are used with select populations. Federal Title funds, special education funds, grants, and other sources of funds are available for targeted programs.

As the research on tablet devices shows true performance gains, tablets will become a viable alternative to purchasing laptops and desktops. Many basic tablet devices can be purchased at a cost of \$400-500, and would represent a significant savings over purchasing desktops or laptops.

For safety and security, some funding for these upgrades can be expected to come from the Federal eRate program where the services are eligible. This is certainly the case for telephone infrastructure upgrades. However, the district still needs to plan for the approximately 10-15% of total costs that the district will be required to pay for what could be a rather expensive project.

# Action Plan

## D. Action Plan

**Goal:** Students will have access to modern technology tools to enhance their learning and prepare them for further education and the world of work.

**District Strategic Plan Goal:**

- Goal 1: Increase Student Learning  
  Goal 2: Improve Resource Management  
  Goal 3: Improve Human Capital  
 Goal 4: Increase Engagement  
  Goal 5: Safety Above All Else

**Objective 1:** Engage students in authentic learning activities that stress problem solving, communication, and collaboration via the use of technologies

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Provide training for staff-members on authentic integration of technology	2012-2013 On-going	Executive Director for Academics and Executive Director for Instructional Technology, Technology Integration Facilitators (TIFs), Campus Coaches	\$30,000	General Fund	Sign-in Sheets Classroom Observations Assessment Scores
Showcase best practices through demonstrations and participation in conferences and staff development activities	2012-2013 On-going	Executive Director for Academics and Executive Director for Instructional Technology, Technology Integration Facilitators (TIFs), Campus Coaches	No Cost	N/A	Sign-in Sheets Classroom Observations Assessment Scores
Include aspects of technology integration in teacher evaluation instruments	2012-2013 On-going	Deputy Superintendent, Chief Teaching and Learning Officer, Executive Director of Academics	No Cost	N/A	Classroom Observation Forms

# Action Plan

**Objective 2: Provide access to standard technological resources for students in all classrooms and laboratory settings**

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Create and fund a budget that allows for the replacement of 20-33% of all computing equipment each year to allow for a 3-5 year replacement cycle.	2012-2013 On-Going	Executive Director of Instructional Technology	2012-2013 \$2,038,939.00 2013-2014 \$1,074,564.62 2014-2015 \$1,118,301.87	General Fund	Purchase Orders Contracts Invoices
Implement a computer recycling plan or use leasing to eliminate disposal problem for workstations.	2012-2013 On-Going	Executive Director of Instructional Technology	\$345,000.00 Yearly	General Fund	Purchase Orders Contracts Invoices

**Objective 3: Provide access to emerging technologies such as tablets and eReaders for students**

Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Instructional technology and academic leadership will evaluate literature concerning the use of emerging technologies	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academic Chief Teaching and Learning Officer Technology Integration Facilitators (TIFs)	No Cost	N/A	Updates to the Technology Plan
Leaders will visit other schools and districts implementing emerging technologies to understand how their usage enhances achievement.	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academic Chief Teaching and Learning Officer	\$1,000	General Fund	Updates to the Technology Plan Addition of new forms of technology
Leaders will procure funding to implement emerging technologies in settings and programs that are consistent with research-based methods	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academic Chief Teaching and Learning Officer District Grants Manager	No Cost	N/A	Additional Technology Funds

# Action Plan

<b>Objective 4: Use technology to help provide a safe, supportive learning environment</b>					
<b>Action Step</b>	<b>Timeline</b>	<b>Person Responsible</b>	<b>Estimated Cost</b>	<b>Funding Source</b>	<b>Indicators of Implementation</b>
Implement network based security alarms	2014-2015	Executive Director of Instructional Technology Maintenance Supervisor	\$280,000	General Fund	Updated alarm system
Investigate the implementation electronic door locks that allow for electronic programming	2012-2013	Executive Director of Instructional Technology Maintenance Supervisor	No Cost	N/A	Cost of door locks
Add cameras and recording equipment as needed in schools	2012-2013 On-Going	Executive Director of Instructional Technology Maintenance Supervisor	\$50,000	General Fund	Outdated Cameras and recording equipment replaced Decrease in discipline referrals
Seek funding to replace aging PBX telephone system with modern voice over IP (VOIP) system	2012-2013 On-Going	Executive Director of Instructional Technology & Information Resources Consultant	\$300,000	E-Rate- 90% General Fund-10%	Updated telephone system

# Action Plan

<b>E. Evaluation of Objectives</b>			
<b>Possible Baseline Data</b>	<ul style="list-style-type: none"> <li>• Statewide test scores</li> <li>• Technology Surveys</li> <li>• District benchmark scores</li> <li>• Classroom observation instruments</li> <li>• Discipline Data</li> </ul>		
<b>Ongoing Data Sources</b>	<ul style="list-style-type: none"> <li>• Statewide test scores</li> <li>• Technology Surveys</li> <li>• District benchmark scores</li> <li>• Classroom observation instruments</li> <li>• Discipline Data</li> </ul>		
<b>Objectives</b>	<b>Outcomes Yr 1</b>	<b>Outcomes Yr 2</b>	<b>Outcomes Yr 3</b>
Engage students in authentic learning activities that stress problem solving, communication, and collaboration via the use of technologies			
Provide access to standard technological resources for students in all classrooms and laboratory settings			
Provide access to emerging technologies such as tablets and eReaders for students			
Use technology to help provide a safe, supportive learning environment			

## Technology Dimension 2: Professional Capacity

### A. Snapshot of Current Technology Use In District

In most district classrooms teachers are utilizing technology in a very basic way. Many have adopted the use of document cameras with digital projectors, but often in a manner that is merely a slight enhancement of their previous usage of overhead projectors. While many classrooms have digital interactive whiteboards installed, the usage of these resources varies and ranges from some teachers creating engaging lessons to many using the board simply as an enhanced version of a traditional chalkboard.

Specific professional development in the use of technology often takes place during school-sponsored professional development days and meetings. Therefore, the topics of sessions can vary from school to school. This professional development is provided by Technology Instructional Facilitators (TIFs).

TIFs are also an integral part of less formal professional development for teachers. These district employees spend time with teachers as individuals and small groups providing training on existing equipment as well as teaching strategies for integrating technology resources into the classroom.

### B. Overall Goal for This Dimension

Educators will move beyond basic technology competency to creating and implementing technology-rich lessons that improve student achievement and prepare students for the manner in which technology is used in the workplace.

### C. Funding Considerations for Districts and Schools

Most advances in professional capacity can be obtained with only minor budgetary impact by slightly changing the focus of some of the current staff development efforts. Continued budgetary support of the TIF Program is also required to make progress with the planning and implementation of this portion of the plan.

One aspect of this dimension that will require a change in funding would be the national Teaching and Learning Conference. Since such a conference would be for all aspects of instruction, it is likely that a variety of existing funding sources could be used, including but not limited to Federal Title funds, general funds, and special services funds.

# Action Plan

## D. Action Plan

**Goal:** Educators will move beyond basic technology competency to creating and implementing technology-rich lessons that improve student achievement and prepare students for the manner in which technology is used in the workplace.

**District Strategic Plan Goal:**

- Goal 1: Increase Student Learning   
  Goal 2: Improve Resource Management   
  Goal 3: Improve Human Capital  
 Goal 4: Increase Engagement   
  Goal 5: Safety Above All Else

**Objective 1:** implement technology professional development that focuses on the integration of technology into the lesson cycle

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Team with Office of Academics to better integrate technology into existing staff development plans	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academics	No Cost	N/A	Staff Development Schedule Integrated Staff Development Sessions
Utilize teachers as peer trainers in advanced uses of technology, including holding a conference-style meeting showcasing technology and instructional strategies	2012-2013 On-Going	Executive Director of Instructional Technology & Technology Instructional Facilitators	No Cost	N/A	Staff Development Agendas Staff Development Surveys Conference Agenda
Create professional development calendars for each year that include technology	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academics	No Cost	N/A	Staff Development Schedule Integrated Staff Development Sessions
Implement Coach-TIF meetings	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academics	No Cost	N/A	Staff Development Schedule Integrated Staff Development Sessions

# Action Plan

## Objective 2: Implement competency based technology training based around ISTE standards.

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Utilize available tools to determine levels of teacher competency and then prescribe appropriate staff development activities to move teachers into an appropriate level of competency	2012-2013 On-Going	Executive Director of Instructional Technology & Technology Instructional Facilitators (TIFs)	No Cost	N/A	Staff Development Schedule Report of Teacher Competency Levels
Investigate the state's current teacher technology competency system for implementation as a part of the Teacher Technology Proviso implementation	2012-2013	Executive Director of Instructional Technology & Chief Human Resource Services Officer	No Cost	N/A	Development of District Technology Proviso Plan

### E. Evaluation of Objectives

Possible Baseline Data	<ul style="list-style-type: none"> <li>Statewide test scores</li> <li>Technology Surveys</li> <li>District benchmark scores</li> <li>Classroom observation instruments</li> </ul>		
Ongoing Data Sources	<ul style="list-style-type: none"> <li>Statewide test scores</li> <li>Technology Surveys</li> <li>District benchmark scores</li> <li>Classroom observation instruments</li> </ul>		
<b>Objectives</b>	<b>Outcomes Yr 1</b>	<b>Outcomes Yr 2</b>	<b>Outcomes Yr 3</b>
Implement technology professional development that focuses on the integration of technology into the lesson cycle			
Implement competency based technology training based around ISTE standards.			

## Technology Dimension 3: Instructional Capacity

### A. Snapshot of Current Technology Use In District

The district has a large variety of teacher resources. However, there remains a need for continuous professional development to expose, enrich, and or accelerate. The following technologies are available in most, if not all, classrooms in the districts:

- Interactive whiteboards
- Document cameras
- Video distribution
- ETV StreamlineSC
- StudyIsland

In addition, teachers have access to several Information systems that can be used to plan and guide instruction throughout the year. These include the PowerSchool/PowerTeacher student information system, the D2SC benchmarking and data warehousing system, the Excent system for special services, and the soon to be implemented Enrich Assess data warehouse solution.

While the availability of these tools is high, some challenges come from the lack of standardization. The district has been adding equipment to classrooms through various funding sources for a number of years. However, all classrooms do have the same technology equipment. Therefore, standardization is necessary. Another challenge is the maintenance and replacement of consumable portions of instructional equipment, particularly bulbs for projectors which may cost a minimum of \$200 per bulb.

Assistive technologies are in use in various places throughout the district where a student has an identified need. The district is generally successful with the implementation of assistive technologies, but there is an opportunity to provide more assistance to students who might not have a profound need for assistive technologies such as sight or hearing impaired students. The district could also improve the management and maintenance of assistive technologies, including having more availability of spare equipment for those students who are profoundly impacted by problems with their assistive equipment.

### B. Overall Goal for This Dimension

Provide a standard set of instructional technology tools throughout the district to enhance student achievement. Utilize emerging technologies to enhance student engagement in the learning process. Partner with community agencies to address the educational needs of all learners.

## **C. Funding Considerations for Districts and Schools**

Funding for 21st Century classroom and the maintenance of the associated equipment has been a challenge for the district for a number of years. Various funding sources have been used to purchase classroom equipment, including federal funds, special education funds, general funds and grant funds. While this has put a great deal of equipment into the classroom, the amount of instructional technology purchased has varied from school to school. In order to complete the implementation of these high-tech classrooms, the district must be willing to commit to funding this initiative and its ongoing maintenance.

The cost of outfitting a classroom with the current standard complement of equipment is approximately \$2500. In addition, most of this equipment can be assumed to have a 6-9 year life span before requiring replacement. Therefore, an ongoing commitment to replacing approximately 12-15% of this equipment each year is needed. In addition, our implementation of the high-tech classroom concept includes the use of digital projectors, which require bulb replacements. Bulbs can be used for approximately 2000 hours before requiring replacement. At 7.5 hours per day, that equates to 267 school days of use. Therefore, we must have funding to replace every bulb in every classroom once every 1.5 school years. At an average cost of around \$200, this is a significant ongoing expense that must be budgeted for.

# Action Plan

## D. Action Plan

**Goal:** Provide a standard set of instructional technology tools throughout the district to enhance student achievement. Utilize emerging technologies to enhance student engagement in the learning process. Partner with community agencies to address the educational needs of all learners.

**District Strategic Plan Goal:**

- Goal 1: Increase Student Learning   
  Goal 2: Improve Resource Management   
  Goal 3: Improve Human Capital  
 Goal 4: Increase Engagement   
  Goal 5: Safety Above All Else

**Objective 1:** Ensure that all classrooms are "21st Century Classrooms," meaning that a standard complement of digital projector, interactive whiteboard, and document camera are available to the teacher.

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Set standards for classroom equipment and purchase equipment to complete implementation throughout district	2012-2013 On-Going	Executive Director of Instructional Technology & Chief Teaching and Learning Officer	\$2,118,939.00	General Fund	21 <sup>st</sup> Century Classrooms Purchase Orders Invoices
Clearly state funding commitments for ongoing maintenance of classroom technology	2012-2013 On-Going	Executive Director of Instructional Technology	No Cost	N/A	Technology Plan Instructional Technology Budget General Fund Budget

**Objective 2:** Utilize technology to improve the lesson planning process to include a greater level of collaboration and reduce the effort required to produce high-quality instructional plans.

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Purchase an online lesson planning product	2013-2014 On-Going	Executive Director of Instructional Technology, Executive Director of Academics, & Chief Teaching and Learning Officer	\$30,000	General	Lesson Plans
Provide initial and ongoing training for online lesson planning that is integrated with training for the district's standard lesson planning methodology	2013-2014	Executive Director of Instructional Technology, Executive Director of Academics, Technology Integration Facilitators (TIFs), Campus Coaches	No Cost	N/A	Sign-In Sheets Agendas Lesson Plans

# Action Plan

**Objective 3: Utilize information systems to make better decisions about the instructional process at all levels from teachers to administrators**

Strategy/Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Complete implementation of and training on Enrich Assess product	2012-2013 On-Going	Executive Director for Instructional Technology, Chief Teaching and Learning Officer, District Testing Coordinator	No Cost	N/A	Data Reports Sign-in Sheets Agendas
Purchase and implement benchmark testing solution that will better meet the needs of the district	2012-2013	Executive Director for Instructional Technology, Executive Director of Academics, & Chief Teaching and Learning Officer	\$100,000	Teaching and Learning General Fund Budget	Benchmark Test Benchmark Reports

## E. Evaluation of Objectives

Possible Baseline Data	<ul style="list-style-type: none"> <li>• Technology inventory</li> <li>• Sample lesson plans</li> <li>• Teacher surveys</li> <li>• Standardized testing scores</li> <li>• District Benchmark scores</li> </ul>		
Ongoing Data Sources	<ul style="list-style-type: none"> <li>• Technology inventory</li> <li>• Sample lesson plans</li> <li>• Teacher surveys</li> <li>• Standardized testing scores</li> <li>• District Benchmark scores</li> </ul>		
<b>Objectives</b>	<b>Outcomes Yr 1</b>	<b>Outcomes Yr 2</b>	<b>Outcomes Yr 3</b>
Ensure that all classrooms are "21 <sup>st</sup> Century Classrooms," meaning that a standard complement of digital projector, interactive whiteboard, and document camera are available to the teacher.			
Utilize technology to improve the lesson planning process to include a greater level of collaboration and reduce the effort required to produce high-quality instructional plans.			
Utilize information systems to make better decisions about the instructional process at all levels from teachers to administrators			

## Technology Dimension 4: Community Connections

### A. Snapshot of Current Technology Use In District

Orangeburg Consolidated School District Five currently utilizes a number of systems to facilitate communications with parents and the community at large. The district utilizes the parent communication features built into PowerSchool and PowerTeacher to allow parents to access their students' daily grades. The district uses Blackboard Connect that allows administrators to call parents and students to deliver timely messages.

We have a district website and each school has a website. Information can be posted on any of these sites to inform and educate parents, students, and community members. The district uses Twitter to send short updates about events and community happenings.

The district has, in partnership with the City and County of Orangeburg, a local access cable channel that it uses to publicize events and show programming. Currently, the content on this channel is primarily announcements, but more effort is being put into placing recorded programming of district events and similar on this channel.

### B. Overall Goal for This Dimension

Technology will be a tool to closely connect parents with their child's learning and allow broader communication with the community as a whole.

### C. Funding Considerations for Districts and Schools

Much of this dimension can be accomplished with systems already in place in the district. An investment may be required in video recording and production equipment in order to utilize the district television station to its fullest potential. Also, an investment in training and/or new staffing may be required to best utilize this station. That investment could take the form of district personnel tasked with video production or as a teaching position to manage a video production class. Exact costs for these items are difficult to calculate until a particular course of action is chosen.

# Action Plan

## D. Action Plan

**Goal:** Technology will be a tool to closely connect parents with their child's learning and allow broader communication with the community as a whole.

**District Strategic Plan Goal:**

- Goal 1: Increase Student Learning   
  Goal 2: Improve Resource Management   
  Goal 3: Improve Human Capital  
 Goal 4: Increase Engagement   
  Goal 5: Safety Above All Else

**Objective 1: Improve communication through greater use of automated calling/texting system**

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Research appropriate practices for use of texting as a contact method for parents	2012-2013	Executive Director for Instructional Technology	No Cost	N/A	Texting Guidelines
Develop guidelines and practices for opt-in/opt-out of text messaging	2012-2013	Executive Director for Instructional Technology, Chief Teaching and Learning Officer, & Principals	No Cost	N/A	Texting Guidelines Sign-In Sheets Agendas
Implement text messaging system and train users and parents	2013-2014	Executive Director for Instructional Technology	No Cost	N/A	Usage Reports Sign-In Sheets Agendas
Activate attendance extraction and a call-out system for each school in the district	2012-2013	Executive Director for Instructional Technology	No Cost	N/A	Usage Reports

**Objective 2: Improve communication with parents by better utilizing online grade book access**

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Have parent tutorial sessions during open house events on how to effectively use the Parent Portal to check their child's progress.	2012-2013 On-Going	Executive Director for Instructional Technology & Student Data Coordinator	No Cost	N/A	Sign-In Sheets Agendas Usage Reports

# Action Plan

## Objective 3: Improve communication with the community through the use of social networking.

Strategy/Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Establish official accounts on currently popular social networking sites and provide access to public relations departments	2012-2013	Executive Director of Instructional Technology	No Cost	N/A	Social Networking Accounts
Provide training to public relations department in effective use of social networking tools	2012-2013	Executive Director of Instructional Technology	No Cost	N/A	Maintenance of Social Networking Accounts Postings to Facebook Postings to Twitter

## Objective 4: Improve communication with the community through the use of the district's cable channel

Strategy/Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Purchase appropriate camera equipment to record events	2012-2013	Executive Director of Instructional Technology	\$2,000	General Fund	Recorded programs TV Station
Provide training and/or staffing in public relations department to increase their capacity to record and produce video content in addition to their current capabilities with still imaging	2012-2013	Executive Director of Instructional Technology, Information Resources Consultant, & Technology Integration Facilitators (TIFs)	No Cost	N/A	Recorded programs TV Station
Investigate implementation of a course at the Technology Center in video production that would handle the majority of the work related to the district television station as a part of their curriculum.	2012-2013	Executive Director of Instructional Technology & Principal of the Technology Center	No Cost	N/A	Course Syllabus Course Instructor TV Station

# Action Plan

## E. Evaluation of Objectives

Possible Baseline Data	<ul style="list-style-type: none"> <li>• Attendance at district events</li> <li>• Parent/Community surveys</li> <li>• "Fans," "Followers" or similar on social networking sites</li> <li>• Subscriber numbers to text messaging services.</li> </ul>		
Ongoing Data Sources	<ul style="list-style-type: none"> <li>• Attendance at district events</li> <li>• Parent/Community surveys</li> <li>• "Fans," "Followers" or similar on social networking sites</li> <li>• Subscriber numbers to text messaging services.</li> </ul>		
Objectives	Outcomes Yr 1	Outcomes Yr 2	Outcomes Yr 3
Improve communication through greater use of automated calling/texting system			
Improve communication with parents by better utilizing online gradebook access			
Improve communication with the community through the use of social networking.			
Improve communication with the community through the use of the district's cable channel			

## Technology Dimension 5: Support Capacity

### A. Snapshot of Current Technology Use In District

Support capacity in Orangeburg Consolidated School District Five is best described as “uneven.” In some areas, our district has state-of-the-art systems and capability to maintain them. In other areas, our district is significantly behind even other similarly sized and funded districts.

In network infrastructure, the district has gigabit or ten gigabit connectivity between all sites and the district office. The district also has a 50Mb connection to the internet, enhanced by the use of a caching proxy server. There is also wireless networking available at each location, as well as file, print, and email services for employees.

Many of these systems, however, are approaching end-of-life or end-of-support or are configured in non-optimal ways. For example, the switch chassis for our WAN equipment are end-of-life by their vendor during 2012, our network operating system is Novell Netware, and our wireless network does not utilize a modern security mechanism.

### B. Overall Goal for This Dimension

Provide technology infrastructure as well as support for instruction and operations commensurate with the importance of the district’s mission to educate children.

### C. Funding Considerations for Districts and Schools

The network infrastructure upgrades proposed in this dimension will be a source of great expense. Fortunately, many of those expenses are eligible for eRate reimbursement so that the district would only have to pay 10-20% of the actual costs for items that are funded by eRate. Still, those costs could be significant, particularly when the district still faces austerity measures imposed by the current economic climate.

# Action Plan

## D. Action Plan

**Goal:** Provide technology infrastructure as well as support for instruction and operations commensurate with the importance of the district's mission to educate children.

**District Strategic Plan Goal:**

- Goal 1: Increase Student Learning   
  Goal 2: Improve Resource Management   
  Goal 3: Improve Human Capital  
 Goal 4: Increase Engagement   
  Goal 5: Safety Above All Else

**Objective 1: Modernize network and communications systems to support current and future technologies**

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Convert aging PBX system to modern Voice over IP system	2012-2013 On-Going	Executive Director of Instructional Technology, Information Resources Consultant, & Network Administrator	\$300,000	E-Rate General Fund	Updated phone system
Upgrade all end-of-life network equipment including core and closet switches	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$800,000	E-Rate General Fund	Purchase Orders Invoices
Replace all battery backup systems in district for core and closet equipment	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$200,000	E-Rate General Fund	Purchase Orders Invoices Backup Reports
Provide proper power for all network systems via electrical installations	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$80,000	General Fund	Purchase Orders Invoices
Move from Novell NetWare to Windows/ Linux operating system	2012-2013	Executive Director of Instructional Technology & Network Administrator	\$200,000	General Fund	Purchase Orders Invoices
Migrate email system from Novell Groupwise to cloud-based email provider	2012-2013	Executive Director of Instructional Technology & Network Administrator	\$50,000	General Fund	Purchase Orders Invoices
Expand server virtualization in data center	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$30,000	General Fund	Purchase Orders Invoices
Consolidate school servers to district data center	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$175,000	General Fund	Purchase Orders Invoices Usage Reports
Locate funding resources including local funds in combination with Federal eRate funding as allowable	2012-2013 On-Going	Executive Director of Instructional Technology	N/A	N/A	Grant Applications Award Letters
Train support staff on new systems	2012-2013 On-Going	Executive Director of Instructional Technology & Executive Director of Academics	\$50,000	General Fund	Sign-In Sheets Agendas Usage Reports

# Action Plan

## Objective 2: Increase security of systems through industry standard practices

Action Steps	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Purchase and install SSL certificates for all systems that contain employee or student data	2012-2013	Executive Director of Instructional Technology & Network Administrator	\$20,000	General Fund	Purchase Orders Invoices
Implement modern security on wireless networks that includes encrypted, authenticated access for students, faculty, and staff and firewalled internet-only access for visitors.	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$100,000	General Fund	Purchase Orders Invoices

## Objective 3: Develop technology support staff with expertise required to manage modern systems

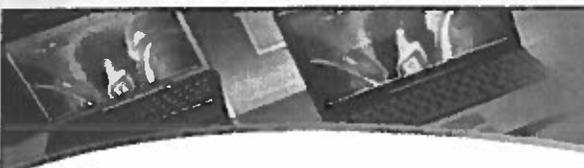
Strategy/Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Designate staff members as points of contact for particular systems	2012-2013	Executive Director of Instructional Technology	N/A	N/A	Departmental Organization Chart
Train staff members in their particular systems of responsibility	2012-2013 On-Going	Executive Director of Instructional Technology	\$50,000	General Fund	Sign-In Sheets Agendas Consultant Vouchers

## Objective 4: Fully integrate disparate information systems in district

Strategy/Action Step	Timeline	Person Responsible	Estimated Cost	Funding Source	Indicators of Implementation
Purchase and/or create software systems to automate the creation and removal of network accounts for employees.	2012-2013 On-Going	Executive Director of Instructional Technology & Network Administrator	\$5000	General Fund	Purchase Orders Invoices
Purchase and/or create software systems to automate the creation of email lists to facilitate communication	2012-2013 On-Going	Executive Director of Instructional Technology & Information Resources Consultant	\$5000	General Fund	Purchase Orders Invoices
Purchase and/or create software systems to automate the movement of student information from SIS to various other systems, to include student network accounts	2012-2013 On-Going	Executive Director of Instructional Technology & Student Information Services Coordinator	\$5000	General Fund	Purchase Orders Invoices
Train OIT staff on use of integration software.	2012-2013 On-Going	Executive Director of Instructional Technology	\$50,000	General Fund	Sign-In Sheets Agendas Consultant Vouchers

# Action Plan

<b>E. Evaluation of Objectives</b>			
<b>Possible Baseline Data</b>	• Evaluation of internal systems		
<b>Ongoing Data Sources</b>	• Evaluation of internal systems		
<b>Objectives</b>	<b>Outcomes Yr 1</b>	<b>Outcomes Yr 2</b>	<b>Outcomes Yr 3</b>
Modernize network and communications systems to support current and future technologies			
increase security of systems through industry standard practices			
Develop technology support staff with expertise required to manage modern systems			
Fully integrate disparate information systems in district			



## Appendix 1:

### No Child Left Behind Action Plan

1. **Strategies for improving academic achievement and teacher effectiveness**  
Strategies are threaded through dimensions 1, 2 and 3 where any further E2T2 funds could potentially be utilized with these strategies.
2. **Goals for using advance technology**  
All dimensions of this plan address ways in which the district will use advanced technology to advance student achievement.
3. **Steps to increase accessibility**  
Dimensions 1, 3, and 5 all address ways in which the district will increase access to resources.
4. **Promotion of curricula and teaching strategies that integrate technology**  
Dimensions 1, 2, and 3 all delineate ways in which technology will be integrated into instruction.
5. **Provision of ongoing, sustained professional development**  
Professional development is threaded through all five dimensions, but is particularly prevalent in Dimension 2.
6. **Technology type and costs**  
Where possible, technology types and estimated costs have been included in each dimension where items are to be procured. In many cases (especially those of infrastructure projects,) the costs will only be fully known once individual projects are engineered.
7. **Integration with curricula and instruction**  
Dimensions 1, 2 and 3 address how technology will be integrated into instruction.
8. **Innovative delivery strategies**  
All dimensions of this plan address delivery strategies for instruction.
9. **Parent Involvement**  
Dimension 4 of this plan specifically addresses parent and community involvement.
10. **Collaboration with adult literacy service providers**  
Dimension 3 addresses collaboration with community partners.
11. **Accountability measures**  
All dimensions as well as the overall benchmarks provide accountability for the plan.
12. **Supporting resources**  
All dimensions address supporting resources that may be needed to support particular goals.

## **AR UNDB-R Technology Acceptable Use**

Issued 11/09

As technology is a vital part of the educational process and the curriculum of the district, students and staff will be provided access to the district local area network (LAN), referred to as "network" throughout this document. Network is defined as all computer resources, including software, hardware, security cameras, telephone lines and services that allow connection of district computers to other computers, whether they are within or external to the district. By providing this access, the district intends to promote educational excellence and allow access to resources unavailable through traditional means.

With access to computers and people all over the world also comes the availability of material that may not be of educational value. The district has taken precautions to restrict access to inappropriate materials. However, on a global network, it is impossible to control all materials and limit all access to information that has no educational value. The district firmly believes that the valuable information and the interactions available on this worldwide network far outweigh the possibility that users may procure material that is not consistent with the educational goals of the district.

Users are defined as anyone authorized by administration to use the network. This includes, but is not limited to, staff, students, parents, vendors, contractors and volunteers. Additionally, this rule reflects that there is no expectation of privacy in the use of e-mail or network communications when such communications occur over district-provided equipment by district employees, students or others.

The smooth operation of the network relies on the proper conduct of the end users who must adhere to strict guidelines. These guidelines are provided here so that users are aware of their responsibility when using the network. Any violation of these guidelines will subject the user to appropriate disciplinary action and possible denial of access to the network.

Prior to accessing the network, students and staff must receive instruction on the appropriate use of the network. In addition, parents/legal guardians will be required to sign a permission form at the beginning of each school year before students will be allowed access. Students must also sign a form annually acknowledging that they have read and understood the policy and administrative rule and that they will comply with the guidelines set forth herein and that they understand the consequences for violating these guidelines [UNDB-E(1)]. Employees must sign a similar acknowledgment form [UNDB-E(2)].

### **Terms and conditions of use**

#### **Acceptable use**

The purpose of the district's decision to provide network access is to allow and expand opportunity for research and education by providing access to unique resources and the opportunity for collaborative work. All use of the network must be in support of education and research and consistent with the rules appropriate for the network. Transmission of any material in violation of any national or state laws or regulations is prohibited. This includes, but is not limited to, copyrighted material, threatening or obscene material and material protected by trade secret.

#### **Monitoring**

The administration reserves the right to review any material on user accounts for purposes of maintaining adequate fileserver space and monitoring appropriateness of material accessed through the network. While doing so, the district will respect the privacy rights of user accounts.

#### **Procedures for use**

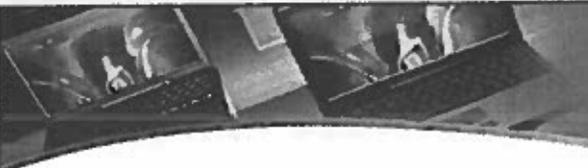
Administrators, teachers and staff may access the network for educational or work-related purposes at any time that is not disruptive and does not interfere with the performance of other personnel.

Students will be allowed to access the network only when they are properly supervised by a designated district employee during the period of use. No student may access the network without permission.

### Rules governing use

The use of the network is a privilege, not a right and inappropriate use will result in cancellation of network privileges. All staff and students must abide by the generally accepted rules of network etiquette including, but not limited to, the following.

- The district discourages the use of social networking sites and other online communications to include the following.
  - derogatory comments related to students or staff
  - crude comments or references to sexual activity
  - photographs of nudity or near nudity
  - photographs of or references to drug use, excessive alcohol use or inebriation
  - photographs of provocative poses or sexual activity
  - potentially offensive commentary (i.e. race, disability, sexual orientation)
- All users are expected to abide by the generally accepted rules of network etiquette. These standards of conduct include, but are not limited to, the following.
  - Users should be polite and use appropriate language. The use of abusive language as well as the use of profanity, vulgarities or any other inappropriate language are prohibited.
  - Engaging in activities which are prohibited under local, state or federal law is not allowed.



## Appendix 2: District's Acceptable Use Policy

- Do not reveal the user's personal address and/or telephone number or that of other users unless compelled to by law. Users of the network will be held responsible for all activity associated with the user's account. Users should not share their passwords with anyone, engage in activities that would reveal anyone's password or allow anyone to use a computer to which they are logged on. Users may disclose their passwords to network technicians and/or their school administrators whose intentions are to diagnose and/or verify network applications assigned to the user are effectively running for the user and/or by the user (i.e. Novell, GroupWise, IGPro, etc.).
- Note that electronic mail is not guaranteed to be private. Messages relating to or in support of illegal or inappropriate activities will be reported to the appropriate authorities.
- Do not use the network to send or receive messages that discriminate based on gender, race, color, religion, ethnic or national origin, political beliefs, marital status, age, sexual orientation, social and family background, linguistic preference or disability or to make remarks that are inflammatory.
- Do not disrupt, harass, cyberbully or annoy other users.
- All communications and information accessible via the network should be assumed to be private property of the district. Always cite quotes, references and sources.
- Never access inappropriate or restricted information, such as pornography or other obscene materials or other information not directly related to the educational purpose for which access is being provided. Restricted information includes obscene, libelous, indecent, vulgar, profane or lewd materials; advertisements for products or services not permitted for minors by law; insulting, fighting and harassing words; and other materials which may cause a substantial disruption of the academic or work environment.
- Vandalism is also prohibited and will result in cancellation of privileges. Vandalism is defined as any malicious attempt to harm or destroy data of another user and includes, but is not limited to, the uploading or creation of computer viruses.
- Do not use the network in such a way that other users would be unable to get the full benefit of information available (i.e. listening to streaming radio, viewing streaming videos, etc.). All users should remain on the system only as long as necessary to complete their work so that other individuals will have equal opportunities to access the network.



## Appendix 2: District's Acceptable Use Policy

- Use of the network for product advertisement, financial and commercial activities, political campaigning or solicitation is prohibited.
  - The use of network tools such as blogs and discussion boards are intended for educational purposes only.
  - All users should use the network for legitimate educational, district or school business purposes.
  - Always follow the instructions of the supervising staff member.

### **Penalties for improper use**

An employee who violates the terms of this administrative rule or otherwise misuses the network to access inappropriate material will be subject to disciplinary action, up to and including termination. In addition, the privilege of accessing the network also will be subject to cancellation for up to a year.

Students who violate the terms of this administrative rule or who otherwise misuse their access to the network also will be subject to disciplinary action in accordance to the district student behavior code.

Violations of the laws of the United States or the state of South Carolina also may subject the user to criminal prosecution. If a user incurs unauthorized costs, the user, as well as the user's parents/legal guardians, if the user is a student, will be responsible for all such costs.

Issued 12/9/08; Revised 11/10/09



## Appendix 3: How E-Rate Areas Have Been Addressed

- 1. Goals and realistic strategy for using telecommunications and information technology**  
It is our belief that this plan outlines our district's use of technology in both instruction and operations in a way that is consistent with the requests that we may make of the federal eRate program over the time period covered by this plan.
- 2. A professional development strategy**  
Professional development is threaded throughout our plan in nearly all of our objectives. In addition, Appendix 2 details how professional development will be used to meet our state's requirement for technology proficiency among educators.
- 3. An assessment of telecommunication services, hardware, software, and other services needed**  
Our needs assessment is included in section IV of the document and reflects both telecommunications and infrastructure needs as well as instructional and operational needs.
- 4. Ongoing evaluation process**  
For each of our technology dimensions, we have included sections for ongoing evaluations. In addition, Section V: Cumulative Benchmarks provides an area for ongoing evaluation of the plan.
- 5. Budget Resources**  
As stated on the USAC website, beginning in FY2011, this element is no longer required. However, in many of the sections of our plan, we specifically address budget challenges for each of the objectives listed.