

**Technology Integration
at Bluemont Elementary**

Submitted By: Megan Mallon

4/29/2011

EDCI 750 Emerging Technologies
Kansas State University
Dr. Clark Harris

Table of Contents

- Part 1** **3**
 - Introduction 3
 - Goals & Objectives 3
 - Justification 4
 - Existing Resources..... 4
- Part 2** **5**
 - Purchases for 2011-2012 5
 - Purchases for 2012-2013 5
 - Purchases for 2013-2014 6
 - Purchases for 2014-2015 6
 - Purchases for 2015-2016 7
- Part 3** **7**
 - Assessment 7
 - Bibliography 7

Part 1

Introduction

Bluemont Elementary is a school with 15 classrooms; 2 per each grade level K-6. There are approximately 300 students enrolled, with a SES of 63% free and reduced lunch. Currently, Bluemont Elementary has a computer lab that classroom teachers visit once or twice a week. While in the lab, most classes will work on either the educational software program Compass Odyssey or the typing program Type to Learn. On occasion, the students will also work on projects that tie in to the curriculum. I am proposing the elimination of the computer lab as a space because it serves in isolating technology from the classroom and the curriculum. The computers from the lab should be distributed to the 15 classrooms, so that students & teachers are able to use the technology on a daily basis. By eliminating the computer lab, teachers will be more likely to integrate technology into their classrooms and curriculum, rather than isolate it.

This plan includes proposals for additional technology to be purchased for the classrooms in Bluemont Elementary. While we already have a strong stock of technology that includes Eikis, Elmos, and Interwrite pads, purchasing the proposed Apple devices will allow mobile technology to be available for student use in classrooms whenever they are needed.

Goals & Objectives

- ✓ Bluemont classroom teachers will grow both professionally and personally by learning and applying technology for student instruction, communication, and management. Faculty and staff will integrate technology across the curriculum an average of 30% of the school week to assist students in becoming lifelong technology users.
- ✓ Bluemont classroom teachers will design and incorporate authentic activities using the proposed technology tools to engage students in authentic problem solving activities with 35% of the curriculum.

Justification

- ✓ Apple mobile devices have been shown (*see article citations in Part 3 of this proposal*) to raise test scores.
- ✓ Having an iPod Touch in each classroom, along with two mobile learning labs, will make it easier to integrate technology into the curriculum on a day-to-day basis.
- ✓ Since Bluemont Elementary already has a good supply of computers (a total of 45 desktops for classroom use and a total of 70 laptops on carts available for classroom use), money for technology will be better spent on handheld devices rather than more computers.
- ✓ The one day professional development (*see Part 2, Purchases for 2011-2012 School Year*) is vital and necessary to get classroom teachers comfortable with using the devices before they begin using them with the students.
- ✓ Apple Education provides a great support system for both educational practical application and technical support.

Existing Resources

Description	Quantity	Recommendation
PC Classroom Computers	2/classroom = 30	Keep (these are only 4 yrs. old)
Interwrite Pads	1/classroom = 15	Keep
Eiki & Elmo	1/classroom = 15 each	Keep
PC Computer Lab Computers	30	Distribute 2 to each classroom
Mobile Laptops in Carts	5 (with 14 laptops each) = 70	Keep
Headphones	35 from computer lab + 2 in each classroom = 65	Keep/Distribute 2 from the lab to each classroom
Individual Earbuds	Each student 4 th -6 th has one = approx. 120	Keep

Part 2

All prices listed are **without the Apple Educator Discount, which is generally approximately 10% off and can be applied at time of purchase.

Purchases for 2011-2012 School Year

Item/Description	Justification	Qty.	Cost	Total
Apple iPod Touch 8GB -Comes with charger -Comes with 1 pair earbud headphones	By providing 5 classroom teachers with an iPod Touch, they will become familiar with using them over the course of the school year. Then, the 5 teachers can assist in training the rest of the staff next year.	5	\$229	\$1,145
Training: Apple Professional Development -16 participants -1 day workshop -K-12 Digital Literacy	Because of the proposed investment in Apple products, training should be provided to increase the comfort level of teachers, as well as give them ideas on how to improve: fluency, reading comprehension for grades K-6, and how to use the devices across the curriculum.	1	\$2,225	\$2,225
Total for 2011-2012				\$3,370

Purchases for 2012-2013 School Year

Item/Description	Justification	Qty.	Cost	Total
Apple iPod Touch 8GB -Comes with charger -Comes with 1 pair earbud headphones	The teachers who received the original 5 iPod Touch devices will be available for training, lesson ideas, and more for additional assistance for the rest of the classroom teachers this year.	10	\$229	\$2,290
Volume Voucher for "App Store Volume Purchase Program"	There are many, many educational applications (apps) available for the iPod Touch. Teachers can use this voucher to immediately buy Educational Apps for their iPod Touches. After having gone to the Apple Professional Development Training, they will know appropriate apps to buy.	1	\$500	\$500
Total for 2012-2013				\$2,790

Purchases for 2013-2014 School Year

Item/Description	Justification	Qty.	Cost	Total
Apple iPad 2 16 GB -Comes with charger -Comes with 1 pair earbud headphones	Allowing each grade level (one for KG, one for 1 st , one for 2 nd , and so on) to receive an iPad 2, it will encourage collaboration among grade level colleagues, which will benefit all students.	6	\$499	\$2,994
iWork for Apple iPad 2 -Software that produces Documents, Presentations, & Spreadsheets	The iWork software can be used by students to create technology projects in all curricular areas, at all ages and grade levels.	6	\$39	\$234
Apple Wireless Keyboard -Connects wirelessly to iPad 2	This keyboard will be available for classroom teachers to checkout and use with special needs students that may have trouble with the motor skills needed for easy use of the keyboard that comes on the iPad 2.	1	\$69	\$69
Total for 2013-2014				\$3,297

Purchases for 2014-2015 School Year

Item/Description	Justification	Qty.	Cost	Total
Apple iPod Touch Mobile Learning Lab -Mobile cart that charges and securely stores 20 iPod Touch devices -Learning Lab <u>comes with 20 iPod Touch 8 GB</u>	While this is an expensive purchase for this year, a mobile learning lab will allow teachers to use a class set of the iPod Touch devices simultaneously. These labs will be stored <u>in</u> the classrooms (one on the top floor, one on the bottom floor) and will be available for immediate use.	2	\$5,999	\$11,998
Total for 2014-2015				\$11,998

Purchases for 2015-2016 School Year

Item/Description	Justification	Qty.	Cost	Total
Apple iPad 2 Mobile Learning Lab -Mobile cart that charges and securely stores 10 iPad 2 (16 GB) -Learning Lab comes with 10 iPad 2 (16 GB) devices	A mobile lab can be shared among classrooms. After grade levels have had the opportunity to try out lessons and applications with one iPad, they will have the chance for collaboration among students with the 10 iPad 2 devices. Primary classroom teachers can use the iPad for emerging literacy & basic math foundations, and intermediate teachers can use the iPad for novel studies or advanced math applications.	1	\$7,299	\$7,299
Total for 2015-2016				\$7,299

Part 3

Assessment

- ✓ Evaluate reading and math Kansas Assessment score growth (for 3rd grade through 6th grade students).
- ✓ Evaluate reading and math MAP (Measure of Academic Progress) score growth (for 1st grade through 6th grade students).
- ✓ Look at reading fluency probe growth (for Kindergarten through 6th grade students).

Bibliography

- ✓ Apple in education profiles. (2010). Retrieved from <http://www.apple.com/education/stories/escondido/>
- ✓ Grigsby, J. (2010). iPod program helps school test scores. O'Reilly Media, Retrieved from <http://radar.oreilly.com/2010/09/ipod-pilot-program-boosts-thir.html>
- ✓ Montgomery, B. (2010, April 20). School receives mobile computer lab. The North Jefferson News, Retrieved from <http://www.njeffersonnews.com/schools/x993504900/School-receives-mobile-computer-lab>