

ORANGE COUNTY  
BOARD OF EDUCATION

AGENDA ITEM ABSTRACT

Meeting Date: January 28, 2013

AGENDA ITEM No. 13-01-(2)-13

ACTION ITEM: (Y/N) N

SUBJECT: One-to-One Initiative Update

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ATTACHMENTS: One-to-One Initiative Update Report

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**PURPOSE:** To provide the Board of Education a report on the One-to-One Initiative occurring in Orange County Schools.

**BACKGROUND:** The goal of One-to-One Initiative is to facilitate student achievement and improve skills related to problem-solving, collaboration, communication, self-reliance, critical thinking, and technologically literacy.

In July 2012, laptops were distributed to all teachers in Orange County Schools. All teachers participated in a day-long training in June on the learning management systems (Moodle, for secondary faculty; and Edmodo, for elementary faculty). Three open lab days were offered throughout the summer for teachers to receive additional technology assistance.

The district 3-day "Catch the Wave" technology conference was held during the last week of June. Sessions led by teachers and vendors covered many topics, ranging from Google Docs to Web 2.0 tools for education.

Since August, professional development has been offered for several computer programs, including Google Docs, Discovery Tech Book and Study Island.

In August, each secondary school offered multiple parent meetings to disseminate information on the laptop program, the district acceptable use policy, laptop responsibilities and public internet access locations. Each meeting provided parents the opportunity to ask questions around the laptop program.

During the first weeks of school, laptops were distributed to students in all secondary schools. At the distribution sessions, laptop and log-in information, and student responsibilities were presented.

Media assistant positions were restored to provide a Help Desk for laptop assistance and repairs.

Attached is a report covering information since the Technology Quarterly Report on November 26.

continued

**FINANCIAL IMPACT:** While this report reflects no request for additional funding, the projected cost of elementary implementation (Phase 3) is:

Devices	\$ 731,400
Elementary Wireless upgrades	\$ 250,000
Backpacks/sleeves	<u>\$ 57,000</u>
Total projected cost	\$1,038,400

**RECOMMENDATION:** The Superintendent recommends that the Board of Education receive for information the report on the One-to-One Initiative.

## One-to-One Initiative Update

The one-to-one initiative update encompasses several areas: Smart Projector update; professional development; technology support; communication; network; community partners; evaluation; device repair; and Elementary Digital Conversion information.

### **Smart Projector update:**

The Smart Company will be replacing all of the U55 Smart Projectors (223). They have sent 30 projectors for us to replace any projector that has problems. During Spring break they will replace all of the other U55 projectors in the district. This will resolve the problems we have experienced with pixels and the projector shutting down due to overheating.

### **Professional Development:**

Key to any educational laptop program is the professional development of its teachers. Since August, the district has offered training on Discovery Tech books, Study Island, Google Docs, Moodle, Edmodo and other programs used for blended learning.

All professional development in OCS integrates technology *and* classroom pedagogy. Additional training is scheduled and will be provided throughout the winter, spring and summer.

### **Technology Support:**

Help Desks and the Technology Associate Principals work closely together to evaluate damage or misuse of the laptops. When necessary, students are called in and discussions concerning these issues are addressed.

Additional training and information are provided to students as necessary. For example, before the holidays, the district was made aware by the UNC Repair Shop that they often see a lot of damage after a school break. Schools were asked to remind students to keep their laptop in a safe place away from younger siblings/relatives and pets and off the floor.

### **Communication:**

The digital conversion in OCS has drawn attention around the state and country. The district hosted an informational day for a Dare County contingent consisting of Board members and district/school administrators, as well as a representative from the Kingsport, Tennessee school district. Articles in local newspapers, the governor's visit to A. L. Stanback and television news stories (all are linked on the 1:1 Laptop webpage, [http://www.orange.k12.nc.us/1to1/1\\_to\\_1.html](http://www.orange.k12.nc.us/1to1/1_to_1.html)) have also allowed the district an opportunity to inform the community on the laptop program in OCS.

Continuing the technology focus this year, the Family Academy will be sponsoring a *Digital Learning Day* on February 6. All schools will offer a two hour informational session for parents. The first hour will consist of an update of the technology in the school; parents will then have time to visit classrooms to observe how the technology is being used.

**Network:**

The monitoring of the Orange County Schools (OCS) network has recently revealed many non-OCS devices using district bandwidth, e.g. cell phones, non-OCS laptops, personal i-pads and i-pods. To resolve this situation, the district is installing a network access control device and program. The program scans devices as they attempt a network connection and will deny access to any device unless it complies with a defined policy that includes an appropriate anti-virus protection level and OCS credentials.

The auxiliary storage drive became corrupt over the winter break and was fully repaired. Additional backup protocols for student data have been created and implemented.

**Community Partners:**

Orange County Public Libraries (OCPL) has been a highly productive partner for OCS. In a recent meeting, library administrators mentioned how successful the Tutor.com program has been. Usage has exceeded their expectations and they noted that most users are OCS students. They have also seen an increase in student use of their wireless connectivity after school and on weekends.

OCPL will be focusing on offering supplemental programs for students during spring break and during the summer. The district has communicated district offerings for the summer and is sharing resource information with the libraries for their programs.

**Evaluation:**

Although the district does not have student achievement data to date, the evaluation process has already started. The Leadership team, district technology and media staff and teachers were asked to reflect on what is working with the laptop initiative and where the district needs to grow.

What staff feels is working:

- Using Google Docs for paperless meetings—PLC, staff or district meetings
- Quick collaboration
- Teacher feedback is immediate in many cases
- Moodle, Study Island and Tech Books in classes
- Even reluctant teachers being willing to explore and experiment with resources
- Students are collaborating/communicating with teachers
- Students are learning important keyboarding skills
- Teachers are learning important new, 21<sup>st</sup> Century technology skills

The staff believes that we can further grow by:

- Increased professional development – more early release and full days of professional development and collaboration (this was the number one suggestion for growth by the staff)
- More Edmodo training before the elementary roll out of devices
- Full time technology staff
- Strengthen skills of staff in evaluating websites for usage in lessons
- Tiered staff development

- Label power cords to match with laptop

The staff is meeting with Duke University students and a professor to create a spring survey of staff and students concerning the secondary laptop initiative.

Secondary schools have reported fewer disciplinary referrals, lower reportable offenses and better attendance.

Orange County Schools Grades 6 - 12 Averages based on Principals Monthly Report months 1 - 4			Orange County Schools Grades 6 - 12 Reportable Offenses taken from months 1 - 4		
2011	2012		2011	2012	
			16	14	-12.50%
Membership	Membership		NCWISE Incident event entries during same Month 1 - 4 time period		
3984.75	3991.5	0.17%	449	316	-29.62%
			ISS total of days		
Absences	Absences		505	368	-27.13%
3755.5	3616.75	-3.69%	Student offenders (duplicated)		
			321	261	-18.69%

### Device Repairs:

The quarterly report from the UNC-Repair shop indicates repairs in the following areas for all secondary schools:

#### Warranty: (65% of total repairs)

- Hard drive 50
- Battery 35
- LCD panels 26
- Keyboard 15
- Video cable 6
- AC adapter 4
- Keyboard bezel/palm rest 2
- Memory 2
- Microphone 1

<b>Non-warranty: (35% of total repairs)</b>	
○ LCD panel replacement	72
○ Keyboard	5
○ Keyboard bezel/palm rest	4
○ Bottom cover	3
○ Fan	1
Laptop fees received	\$86,285.50
Laptop non-warranty fees received	<u>\$ 3,792.88</u>
Total Fees received	\$90,078.38
Total cost of repairs	<u>\$22,920.19</u>
Balance of Fees Collected	\$67,158.19

**Elementary Digital Conversion:**

Representatives from Grades 3-4-5 at each school, each subject area (PE, Arts, and World Language), an elementary principal, an elementary parent with children in both elementary and secondary schools, technicians and district administration make up the Elementary Digital Conversion Team.

This Team is using online and face-to-face meetings. The Team began online work the beginning of January and had the first face-to-face meeting on January 12<sup>th</sup>. The vision statement from the district technology plan and the duties/role of the Team was shared. Data are being gathered through using Google docs for the elementary digital conversion concerns, discerning the needs of an elementary digital device, and more detailed information related to the elementary digital conversion (Phase 3) will be added to the *Preparing Orange County Schools for the Digital Conversion* Report on the one-to-one laptop web page. ([http://www.orange.k12.nc.us/1to1/1\\_to\\_1.html](http://www.orange.k12.nc.us/1to1/1_to_1.html))

The proposed timeline for the elementary one-to-one program is:

- January – August
  - Wireless in elementary schools will be increased in Grade 3-4-5 wings
  - Professional development for online curriculum
  
- January – February
  - Conversion Team discusses the needs of the elementary conversion plan.
  - Devices are reviewed to ensure they will meet the needs of the elementary curriculum and are appropriate for elementary students. This review will entail hands-on evaluation of both tablet and laptop devices.
  - A time line will be created for roll out and professional development.
  - A frequently asked question document will be created.
  - Parents will be polled concerning whether they would like devices to go home with students and whether they have internet access at home.
  - A document will be created stating the additional needs for digital conversion to be successful. (Staffing, training and equipment/backpacks or sleeves)

- **March**
  - Recommendations are made to the Superintendent and Board of Education.
- **April**
  - Devices are ordered.
- **July**
  - Devices are rolled out for use at Hillsborough Elementary.
- **August**
  - Devices are rolled out for use at the six other elementary schools.
- **August –June 2014**
  - Continued professional development across the district for digital use in the classroom.