Tech plan 2014
Charlemagne Fox Hollow
Integration Plan – Fall 2014
REVISED 11/2014

Charlemagne Fox Hollow

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Current Technology Leadership Team:

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Charlemagne Tech Vision

The Charlemagne staff is committed to teaching, supporting and using technology to enhance student learning across all curriculum with a special emphasis on French language acquisition. We will bridge technology and relevant curriculum to inspire learners to create, reflect, and connect their learning to the greater world. Instructional technology paired with student-centered and inquiry-based instruction can enhance critical thinking skills which students need to master to be academically successful in the 21st century.

Goals and Objectives

Charlemagne has set the goal to have at a minimum a 2:1 student to computer/device ratio with an optimal ratio of 1:1. Our goals come directly from the items on the NETS that we either need to address more effectively or have set as goals to further expand technology integration in all curricula and articulated across the k-5 grades. We have also integrated French language arts to many of the NETS goals in order to address French language acquisition through technology. Our school is well equipped with multimedia equipment for teachers. We would like to expand our technology equipment to provide opportunities for all students to access technology with an emphasis on digital story telling and French communication applications.

NETS
1. Creativity and Innovation

- Students will illustrate and communicate original ideas and stories using digital tools and media rich resources in French.
- Use digital-imaging technology to modify or create works of art for use in a digital presentation.
- Create a French digital portfolio of each student in k-5 with a goal of a k-12 portfolio.

2. Communication and Collaboration

- Engage in learning activities with learners from multiple cultures through email and other electronic means.
- In a collaborative work group, use a variety of technologies to produce a digital presentation or product in a curriculum area.
- Students will create French language arts instruction to create a resources page on our school website.
- Students will create French language multimedia projects to post on our school website.

3. Research and Information Fluency

- Find and evaluate information related to a current or historical person or event using digital resources.
- Students will learn how to research, report on and present using multimedia applications
- Recognize bias in digital resources while researching a topic of interest with guidance from the teacher.

4. Critical Thinking, Problem Solving, and Decision Making

- Select and apply digital tools to collect, organize and analyze data to evaluate theories or test hypotheses.
- Conduct science experiments using digital instruments and measurement devices.

5. Digital Citizenship

- Demonstrate the safe and cooperative use of technology.
- Demonstrate the ability to navigate in virtual environments such as electronic books, simulation software, and websites.
- Debate the effect of existing and emerging technologies on individuals, society and the global community.

6. Technology Operations and Concepts

- Apply previous knowledge of digital technology operations to analyze and discuss current hardware and software problems.
- Students will learn how to keyboard in grade 3 and continue to practice their skills in grades 4 and 5.
- Acquire the appropriate technology to successfully have students take district- and state- mandated standardized tests.

Existing Resources:

- **Projectors:**
12 projectors (10 mounted in classrooms)
1 portable LCD projector
- **Computers and COWS**
1 Computer lab with 36 MacBook Airs to serve all 316 students

1 COW with 30 MacBooks (In grades 3 & 4 which serve 100 students)

1 COW with 17 MacBooks (In grades 1 & 2 which serve 120 students)

4 MacBooks in the Kindergarten Classroom (which serve 30 students)

1 COW with 24 G4s (In the 5th grade which serves 30 students)

All Licensed classroom staff (13) have MacBook Pro laptop computers

- **iPads**
17 iPad 2s in third grade to serve 50 kids

17 iPad Minis in first and second grade to serve 120 kids

14 iPad Minis in fourth grade to serve 55 kids

6 iPad Minis in fifth grade to serve 50 kids

3 iPad Minis in kindergarten to currently serve 30 kids, next year 60 kids

1 iPad Air per certified classroom position = 11

- **Peripheral Devices and software:**
6 Smart Boards (5 function)

12 Doc Cams (of various grades)

11 Teacher Digital Cameras

15 2-megapixel cameras in third grade

4 Flip Cameras

1 Set of Clickers

10 USB Microphone headphones

- **Software:**
Site licensed for Microsoft Office 2008

Site Licensed for iLife '09

Site Licensed for iWork ' 08

Year One: New Resources for 2014-2015

We would like to replace the 24 G4 computers in the fifth grade (only 17 function some of the time) and complete that COW with 12 additional laptops. We would also like to replace the COW that currently serves the third and fourth grades with two COWS, one per grade level. This way students would be familiar with the machines and a variety of multimedia platforms before they have to take both the Smarter Balance common core state tests and the STAMP French language acquisition test. The G4 computers are at the "end of their life" and are extremely problematic to use. The staff feels that it is important to provide the students with laptops rather than iPads due to the need to produce multimedia documents and written responses to both of the summative assessment test questions (Smarter Balance and Stamp) and in-class activities.

Replace:

1 COW with 30 MacBooks (In grades 3 & 4 which serve 100 students, this will soon serve only third grade)

1 COW with 24 G4s (In the 5th grade which serves 30 students)

In addition to replacing the above computers we would need to purchase additional MacBook Airs to complete the COW in the fifth grade classroom:

Additional Computers:

13 MacBook Airs for the Cow in 5th grade

1 COW of 36 to serve the fourth grade

Year Two and Three: New Resources for 2015-2017

During the remaining years we would like to replace the old laptop computers in the COW that serves the second and first graders, replace the kindergarten laptops, replace the library computer, and complete the grade one and two COW to create a class set of

30. The first grade has expressed a preference for a class set of iPad minis, which would mean the purchase of an additional 13 iPad minis. This would mean that the second grade (ideally) would have a Cow of 30 laptop computers and the first grade would have a class set of 30 iPad minis.

- **Replace:**
1 COW with 17 MacBooks (In grades 1 & 2 which serve 120 students)

4 MacBooks in the Kindergarten Classroom (which serve 30 students)

1 Library laptop computer

- **Additional Items to purchase**
13 iPads minis to bring the total to 30 iPad minis in the first grade

11 new Projectors – to replace the old "end of life" projectors in classroom – These will be replaced by the general fund on a "as needed" basis.

4 MacBooks for the new Kindergarten classroom

57 iPad minis for the two Kindergarten classrooms

11 new LCD projectors

Professional Development

The staff will be trained on the use of Google docs, multimedia applications and will attend district trainings. The district provides trainings of how to create ebooks, of the best use of iPads and their apps, and how to best use a Smart board. The staff will need to be trained in programs such as Skype, Edmodo, Evernote, and Google Drive (Products), etc. We will invite technology support to come and train the staff during staff meetings, for example Kellyclaire G. or Misty.

At each curriculum staff meeting (once a month) we will dedicate at least 10 minutes to technology instruction. Our first curriculum staff meeting tech topic will be revisiting how to use Reflector on the teacher iPad, student iPads, and the teacher computer/projector.

On December 1st all of the teachers will take a practice Smarter Balance test in Reading and Math. This will help the whole staff understand what technology skills the students will need to take the test. We want all students to be comfortable with the technology so

that it is not an impediment to the students showing what they know.

On December 1st we will also discuss the development of digital portfolios for all
students K-5. We will train the staff how to access and use the server so that students can
save work to show their academic growth over time.

Funding Projections

We are hoping that the Crossroads Bond Project will cover the majority of the cost for the
technology integration plan. The majority of the fundraising that is done at our school is
used to cover the cost of staffing. We will have to use the general funds to replace our
aging LCD projectors as they need replacing.

Grade/Location	Currently Have	Replace Machines	In addition to the	Students

		rated D and F	replacements:	Served
Computer lab	36 MacBook Airs	0	0	School
Kindergarten	4 MacBooks 3 iPad Minis	4 MacBook	4 additional MacBook Airs 57 iPad minis	60
1st Grade	17 iPad Minis		13 additional iPad minis	60
2nd Grade	17 MacBooks	17 MacBooks	13 MacBook Airs	60
3rd Grade	1 Cow of 30 MacBooks 17 iPad 2s	1 Cow of 30 Macbooks	12 iPad 2s	60
4th Grade	14 iPad Minis		1 Cow of 36 MacBook Airs	60
5th Grade	17 G4s 6 iPad Minis	17 G4s	13 MacBook Airs	60
Projectors	11 LCD projectors	11 LCD projectors - not sure of the rating		60