iTraining

Evaluation Report

May 2014

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This report describes the evaluation activities and findings of the *iTraining* project, which was funded by the Martha Holden Jennings Foundation, and implemented by the Northwest Ohio Center for Excellence in STEM Education (NWO) and Putnam County Educational Service Center (ESC). The report begins with a summary of the project activities and participants, followed by an overview of the evaluation design. The report continues with a summary of the evaluation findings before ending with some general conclusions and recommendations for future projects.

PROJECT ACTIVITIES

The *iTraining* project was implemented from September 2013 to March 2014 in two three-session tracks. A track geared toward elementary school teachers took place in the fall of 2013 and a track geared toward high school teachers took place in the spring of 2014. Each session was three hours long. Therefore, teachers who attended all three sessions received nine hours of professional development. All sessions were held at the Putnam County ESC, and facilitated by experienced teacher educators from the ESC.

The sessions within each track followed a similar progression. The first session addressed basic concepts of using an iPad in the classroom, as well as some ways students can use the iPad to create and communicate ideas (e.g., apps like Story Kit and Popplet). The second session focused on the use of the iPad to foster collaboration among teachers in different disciplines. The third session focused on managing a classroom using iPads. In every session, facilitators demonstrated and teachers explored several apps that were relevant to the primary area of focus.

The overall purpose of the *iTraining* project was to afford approximately sixty teachers in the nine Putnam County school districts professional development in technology integration for their classrooms, enhancing their teaching and positively impacting their students. The specific goals of the project were to: a) increase teachers' self-efficacy beliefs about using mobile devices (i.e. iPads) for instructional purposes; improve teachers' confidence and knowledge about b) using iAuthor in the classroom; c) using mobile apps for professional

collaboration; d) managing a digital classroom; and e) increase teachers' implementation of mobile apps in their classrooms.

<p style="text-align:center">PROJECT PARTICIPANTS</p>

A total of 63 teachers (29 elementary, 34 secondary) participated in the project. Eight one of the nine school districts located within Putnam County were represented in the project, with most teachers coming from the Ottawa-Glandorf, Leipsic, and Ottoville districts. The table below includes the demographic information collected from the participating teachers. Most of the teachers who reported teaching all subjects were elementary school teachers (who most likely had a self-contained classroom). The "other" subjects taught by participating teachers included Agriculture, Spanish, and Physical Education.

Demographic Information of iTraining Teachers

Demographic Variable		% (#) of Teachers
Grade Level Taught	PreK-4	32% (20)
	5-8	32% (20)
	7-12	21% (13)
	9-12	14% (9)
Subjects Taught	All	35% (22)
	Science	16% (10)
	Math	18% (11)
	Social Studies	8% (5)
	English/Language Arts	21% (13)
	Technology	5% (3)
	Other	16% (10)

EVALUATION DESIGN

The evaluation of the *iTraining* project was conducted using a mixed methods approach, and guided by the following questions:

1. To what extent does the *iTraining* professional development demonstrate the elements of excellent teaching outlined by the Martha Holden Jennings Foundation?
2. What is the quality of the *iTraining* professional development sessions?
3. What is the impact of the *iTraining* project on teachers' self-efficacy beliefs about using mobile devices for instructional purposes?
4. What is the impact of the *iTraining* project on teachers' use of mobile apps for instructional purposes?

Evaluation Question 1: Alignment of project with elements of Excellent Teaching

In order to determine the extent to which the professional development demonstrated the elements of excellent teaching, *iTraining* staff observed one professional development session in the fall, looking specifically for instances of excellent teaching as outlined by the Martha Holden Jennings Foundation. This differs from the proposed evaluation plan, which stated that two observations would be conducted over the course of the project. Timing and other logistical constraints limited the ability of staff to observe two sessions. And while this reduced the overall amount of information available to answer the first evaluation question, the instructional information collected from the professional development facilitators (described in the next paragraph) provided enough additional information to adequately answer the question.

Evaluation Question 2: Quality of the professional development sessions

The quality of the professional development sessions was determined from the responses on the Session Evaluation Surveys and through an analysis of the instructional materials (e.g., lesson plans, session agendas, session materials) used during the project. The Workshop Evaluation Survey consisted of twelve items separated into three main sections, which about the quality of the workshop, the impact of the workshop, and participants' perceptions of the workshop. (The Session Evaluation Survey can be found in Appendix A.) E-

mail invitations to complete the survey were sent to all participants after each session. The percentage of teachers who completed each survey was over 75%, with an average of 88%.

The instructional materials used to determine the quality of the professional development sessions were collected from the professional development facilitators after all of the sessions had been conducted. These materials also supplemented the observational data in determining the alignment of the instruction with the elements of excellent teaching.

Evaluation Questions 3 and 4: Impact on teachers' beliefs and teaching practices

The impact of the project on teachers' self-efficacy beliefs and use of mobile apps for instructional purposes was determined from the responses on the Technology Attitudes and Usage (TAttU) Survey. The TAttU Survey consists of two main sections: one that measures teachers' self-efficacy beliefs about integrating mobile technology in the classroom, and another that measures teachers' familiarity, use, and preparedness in using several mobile technology apps. (The TAttU Survey can be found in Appendix A.) The specific apps on the second part of the survey (e.g., Pages, Keynote, Essay Grader) were included based on the intended professional development curriculum. However, the specific apps used in the actual curriculum turned out to be much different than the apps included on the survey. This change likely diminished the survey's ability to accurately measure gains in teachers' use of specific apps as a result of the project. Supplemental item-by-item analyses were conducted to identify changes in teachers' use of specific mobile apps. The post-project survey included three additional open-ended items that measured teachers' perceptions about their experience during the project. Teachers completed the survey online before and after participating in the project. Elementary teachers completed the survey in September and December, and secondary teachers complete the survey in January and April.

EVALUATION RESULTS

The results presented in this section are organized according the four evaluation questions that guided the evaluation of the project.

Demonstration of Excellent Teaching

The Martha Holden Jennings Foundation defines excellent teaching as, "motivating students, leading them in 'academic discovery', managing the classroom well, and connecting concepts with personal experience". The *iTraining* project sought to reflect these aspects of teaching in two ways: primarily by modeling excellent teaching during the professional development sessions, and secondarily by preparing teacher participants to emulate these aspects of teaching in their owns classrooms.

The session observation and instructional materials revealed that the facilitators modeled aspects of excellent teaching during the session. Notably, the facilitators modeled "academic discovery" by providing time for teachers to explore apps by themselves and with their colleagues. This practice also modeled "connecting concepts with personal experience", especially when teachers were asked to work with their colleagues to create a project or a lesson using the newly explored apps. According to the session agendas collected from the facilitators, at least an hour was devoted during each session to the exploration and application of mobile apps. This was confirmed by the observation, which documented the high level of teacher engagement in exploring the apps. The instruction during this project was more practical than abstract, and therefore connecting the concepts with the teachers' personal experience e.g., subjects taught, special education) seemed to be a foundational element of instruction. The teachers' high level of engagement also indicated their motivation to learn, which is another aspect of excellent teaching. The session agendas indicated that several new apps were explored during each session. Exploring new apps was a motivating aspect of the project, and an average of 78% of teachers reported that the sessions were engaging (see the next section for more information).

The observation also demonstrated several ways in which participating teachers might implement aspects of excellent teaching in their own classrooms. Many of the mobile apps were designed to motivate and engage students in the learning process, so simply using the

apps in their classroom would help teachers motivate students and lead them in academic discovery. Furthermore, one entire session in each track was devoted to classroom management using mobile technology. Facilitators modeled this aspect of excellent teaching during the session, and teachers' use of the mobile apps in their own classroom helped them to be excellent teachers by managing their classroom well.
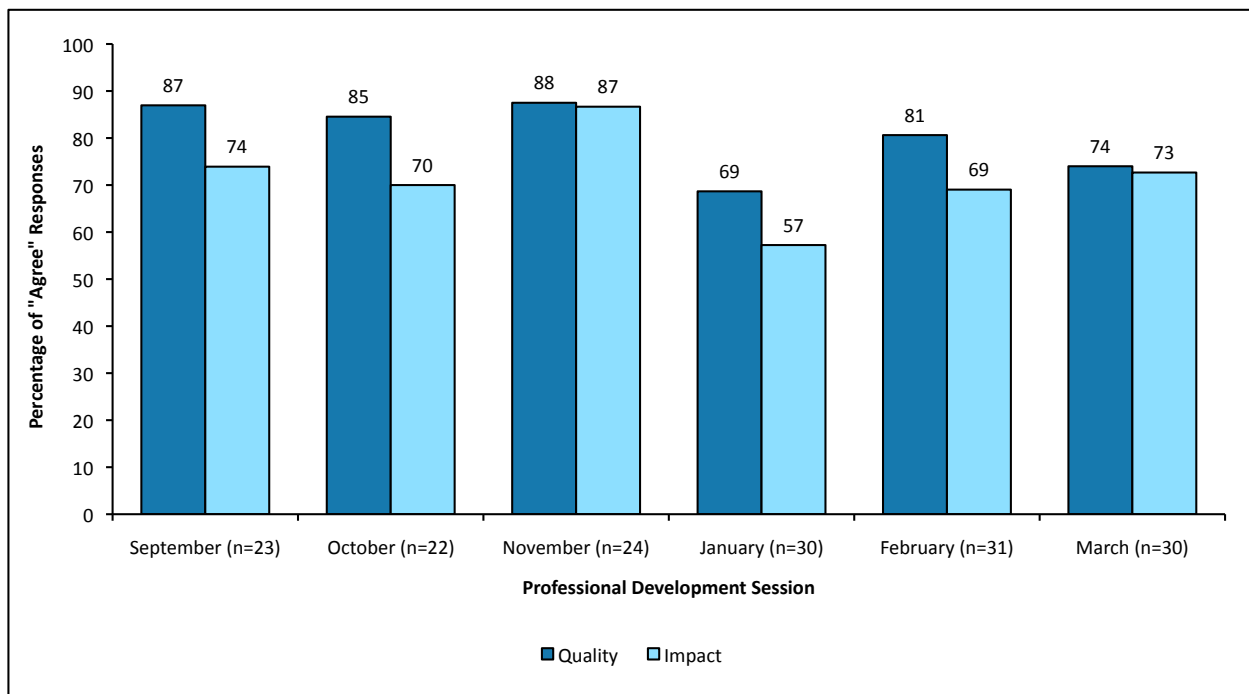
Quality of the Professional Development Sessions

In a way, the quality of the professional development is related to the extent to which it demonstrates the aspects of excellent teaching. The characteristics of excellent teaching should theoretically enhance the overall quality of the professional development. Indeed, the Martha Holden Jennings Foundation definition of excellent teaching includes many of the same components included in models of effective professional development. According to these models[1], professional development should be sustained over a long period of time, include opportunities for active learning and collective teacher participation (especially of teachers from similar grades or content areas), and instruction should be situated within teachers' classroom practice.

The content and implementation of this project aligned with these characteristics of effective professional development. In contrast to some "one-shot" models of professional development, the sessions in this project were spread over a course of three months. In addition, as demonstrated in the last section, the professional development sessions included several opportunities for teachers to actively explore the mobile apps in collaborative groups (across grade levels and disciplines). Finally, the aspects of the project that connected concepts to personal experience (described in the previous section) were the same that situated the instruction within the teachers' classroom practice. The teachers used the mobile apps to create lessons and presentations that pertained directly to their own classrooms.

Alignment of project activities to theories of effective professional development is an important part of demonstrating overall project quality. However, equally important are the

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[1] For an example, see Garet, M. S., Porter, A. C., Desimone, L., Birman, B. F., & Yoon, K. S. (2001). What makes professional development effective? Results from a notion sample of teachers. *American Educational Research Journal, 38 (4),* 915-945.

perceptions of the teacher participants regarding the quality and impact of the project. The responses from the Session Evaluation Surveys indicate that teachers' perceived the professional development sessions to be impactful and high in quality. The chart below shows the overall percentage of "Agree" responses to the survey items related to the quality and impact of the sessions. A majority of the responses—about 75% on average—to the quality and impact items were "agree." Teachers agreed most with the two facilitator-related items (i.e., "The facilitator was well prepared and organized" and "The facilitator demonstrated a deep level of expertise in the topic addressed during the session") as well as the item about gaining new tools and resources (i.e., "I left the session with tools/resources that I will use in my classroom this school year").

Note: n = number of teachers who completed the survey for each session

The elementary teachers generally gave more "agree" responses than secondary teachers. The largest difference between the elementary and secondary teachers' responses was on the item, "The specific content that was addressed and examples used during the session were relevant to my professional practice". This may be because secondary teachers

usually have a more specific content focus than elementary teachers, and thus it may be more difficult to adequately address everyone's specific needs. Regardless, the general response to the professional development sessions was positive.

Teachers' written responses to the evaluation surveys provided further evidence for the quality of the professional development. In fact, teachers often commented about the aspects of the project described above (e.g., active learning, collaboration, connected to personal experience). Collaboration in particular was a major theme among the teachers' responses; teachers especially appreciated the time working with teachers from their own district and within their own discipline. The second session in each track was devoted to collaboration, but comments about collaboration were not limited to that session. Teachers mentioned collaboration as a strength after all of the sessions, but especially after the second and third sessions. Some of the teachers wrote:

> *Enjoyed collaborating with other teachers teaching the same content.*
>
> *Working with colleagues was VERY beneficial! We were able to collaborate K-2 effectively.*
>
> *I really enjoyed collaborating with other colleagues*
>
> *I also enjoyed working with teachers in my own teaching field. We had wonderful discussion on how to use different apps in class, we also shared additional apps that were not on the list.*
>
> *I liked the way we could work together with other teachers in out own area. I got some good suggestions and information from the other teachers as well as sharing the different apps we were finding. This saves time when looking through all the apps out there.*

Teachers also frequently commented about the quality of the facilitators and the hands-on nature of the professional development. Regarding the quality of the facilitators, some of the teachers wrote:

The presenters were well prepared and very knowledgeable. The time went quickly and I learned a lot.

Beth did an excellent job. I wish I was so knowledgeable about iPads.

Gary has done a great job preparing for our sessions, and is willing to help.

Regarding the hands-on nature of the sessions, some teachers wrote:

I appreciated being given time to explore the apps suggested

I felt that each session was different and it was a good mix of including us as students listening to her presentation and then we were able to actively participate
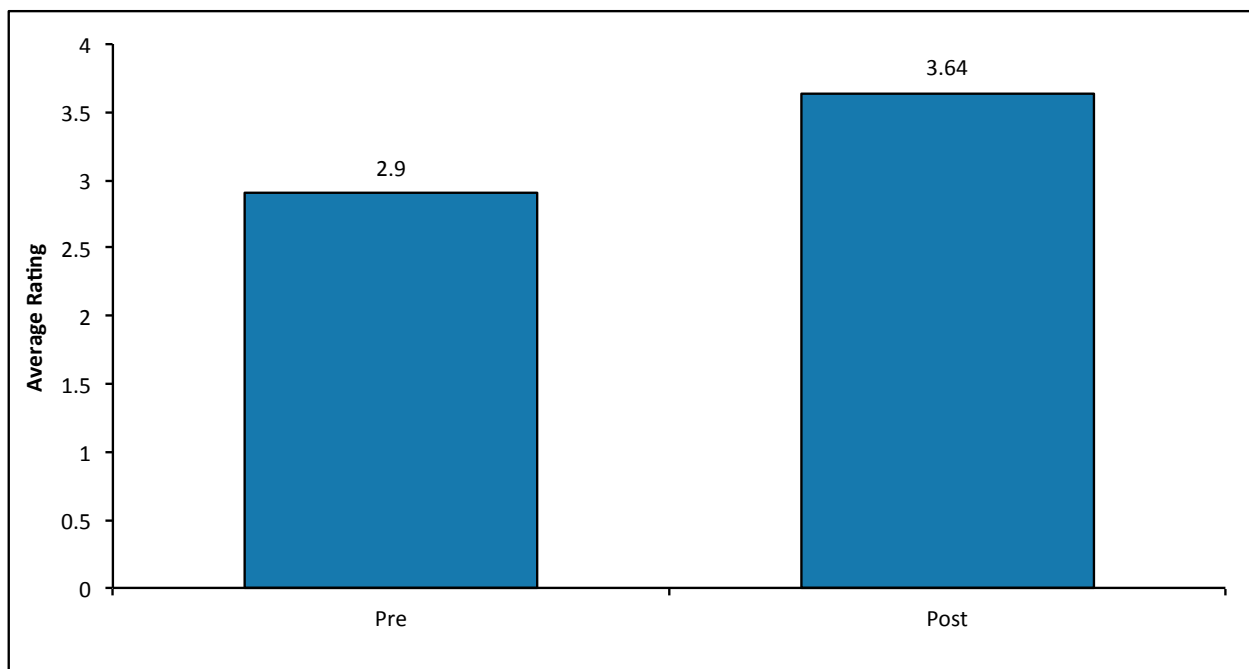
Plenty of time to "play" with new apps and to discuss with colleagues and or grade level.

Another positive aspect of the project was the facilitators' adaptability to teachers' needs and suggestions. This was uncovered through the analysis of teachers' responses to the evaluation surveys. What was reported as a suggestion for one session was often reported as a benefit for the next session. For example, after the first session, several teachers suggested that working in groups with teachers from their own schools would be more beneficial than working with teachers from other schools. The responses after the second session indicated the facilitators had followed this suggestion; many teachers positively commented on the opportunities to work with their colleagues to create a lesson. Similarly, after the second session, some teachers suggested that a list of apps be sent ahead of time so teachers could download them before the session. The responses after the third session indicated that teachers had been sent the apps beforehand.

Any professional development project focused on technology integration is bound to come across issues related participants' different abilities and skills in technology. The *iTraining* project was no different. Teachers often commented on the difficulty in addressing everyone's specific needs. These comments indicated some issues related to pacing, but no clear suggestion was evident. Some teachers thought the instruction was too basic, while others thought the instruction was too advanced.

Impact on Teachers' Self-efficacy Beliefs

The responses from the TAttU Survey indicate that teachers significantly improved their self-efficacy beliefs about using mobile technology for instructional purposes (see Table 1 in Appendix C for the technical results). Self-efficacy can be defined one's belief in their ability to do a particular task (in this case, use mobile technology in the classroom). It is an important motivational concept that has been demonstrated to influence whether a person will engage and persist in the task in the future[2]. Therefore, the teachers' gain in self-efficacy makes it more likely they will actually use mobile technology in the future. The chart below illustrates the teachers' gain in self-efficacy as a result of the project.

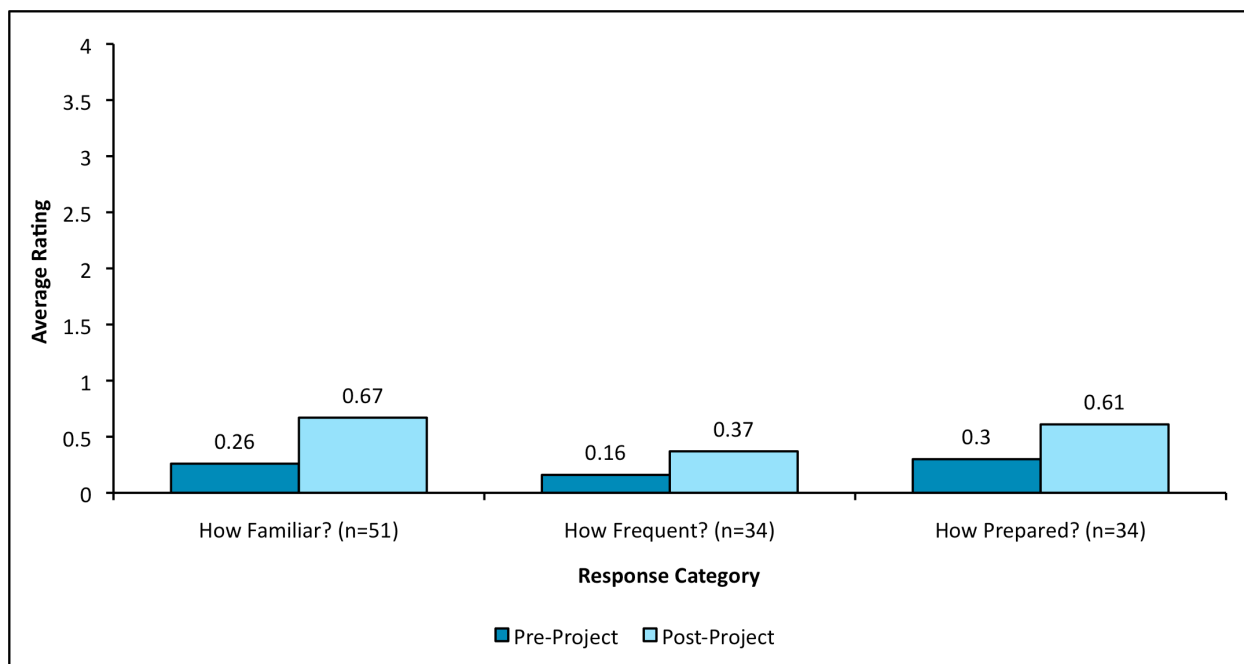*Note: 1=Strongly Disagree, 2=Disagree, 3=Neither Agree Nor Disagree, 4=Agree, 5= Strongly Agree*

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[2] Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review, 84(2),* 191-215.

Impact on Teachers' Use of Mobile Apps

As mentioned before, the specific apps to which teachers responded on the TAttU Survey were meant to be reflective of the apps that were used during the professional development. But this was not the case. In fact, only seven of the seventeen apps listed on the TAttU Survey were addressed during the elementary track, and nine were addressed during the secondary track. It is important to note that the apps on the TAttU are not supposed to represent the "best" apps, or a standard for what should be addressed during professional development. They were only included as a way to accurately measure changes in teachers' perceptions and use of the apps they learned about during the project. The ever-changing landscape in mobile technology likely contributed to the facilitators' use of different apps during the professional development. The TAttU should perhaps be modified for future use to allow teachers to respond to more general questions about their use of mobile technology in the classroom.

Despite the relative lack of alignment between the apps listed on the survey and the apps used during the project, the survey responses indicated that teachers were more familiar with mobile apps, used mobile apps more frequently, and were more prepared using mobile apps in the classroom after participating in the project. The teachers' responses regarding their familiarity, use, and preparedness to use the seventeen apps listed on the TAttU Survey are illustrated in the chart below. All gains shown in the chart are statistically significant (see Table 1 in Appendix C for the technical results).

In addition to the overall pre- and post-comparisons for familiarity, frequency, and preparedness, individual item analyses were conducted to determine which apps saw the most gains as a result of the project (see Table 2 in Appendix C for the technical results). Teachers gained the most in familiarity, and the second most in preparedness, supporting the overall result shown in the chart above. Teachers were significantly more familiar with fourteen of the seventeen apps, and significantly more prepared to use eight of the apps. Interestingly, teachers' reported gaining familiarity of and preparedness to use apps that were not addressed during the professional development.

Chart:

- How Familiar? (n=51): Pre-Project 0.26, Post-Project 0.67
- How Frequent? (n=34): Pre-Project 0.16, Post-Project 0.37
- How Prepared? (n=34): Pre-Project 0.3, Post-Project 0.61

Y-axis: Average Rating (0 to 4)
X-axis: Response Category
Legend: ■ Pre-Project □ Post-Project

Note: n = number of teachers who completed the survey for each session

Several teachers commented on the impact of the project on their teaching practices. A few specifically emphasized the impact of the project on their preparedness to use mobile technology:

> *My confidence in using an ipad has skyrocketed. I feel like I know my way around using an ipad and downloading aps and looking for aps. I also know several aps that I can utilize in my classroom in the future.*

> *I am much more comfortable about using the technology in the classroom.*

Other teachers mentioned the project's impact on their use of mobile technology for instructional purposes. These teachers wrote:

> *I will be using more apps to help classroom management and for student use to make learning more exciting.*

> *Previous to the ipad training, I had not used the ipad as a teaching tool, but rather for a reward. Now, I can use it for behavior tracking, reward system, as well as teaching hands*

on skills such as the augmented applications that we learned about through this

training. I also use it for assessing students knowledge.

CONCLUSIONS AND RECOMMENDATIONS

The evaluation findings demonstrate that the *iTraining* project was successful in meeting its goals. Specifically, the project's activities were aligned with the Martha Holden Jennings Foundation definition of excellent teaching, as well as several well-known indicators of effective professional development (e.g., opportunities for active learning, instruction situated within teachers' classroom experience). In addition, teachers reported an increase in their self-efficacy to use mobile technology for instructional purposes, and became more familiar and more prepared to use mobile technology in their classroom.

The overall increase in teachers' familiarity with, use of, and preparedness to use mobile apps was particularly interesting given the fact that most of the apps on the evaluation survey were not addressed during the project. This could be interpreted in two ways: that teachers felt more familiar, prepared, etc. overall, and therefore responded as such even though a particular app wasn't addressed, or that teachers discussed some of the apps within their small groups even though the facilitators did not explicitly address the apps. Regardless, the results seems to indicate the project's success at exposing teachers to a variety of mobile apps, and improving their confidence and use of the apps in their classrooms.

Recommendations

The following recommendations are based mostly on teachers' written comments but also on the evaluator's analyses and reflection on the evaluation process.

1. The TAttU Survey should be modified to include more general attitudes about familiarity with, use of, and preparedness to use mobile apps in the classroom. The inclusion of seventeen specific apps turned out to be an obstacle because most of the apps were not used during the project.

2. Even though many teachers positively commented on the time provided to explore the apps during the sessions, some teachers suggested that even more time be provided for

exploration. Timing should be considered to provide teachers with adequate time for exploration.

3. Some teachers requested that a list of apps be sent out ahead of time so teachers could download then before attending the session. Although this suggestion seemed to be remedied during the project, it is worth listing here if only for documentation.

4. As was certainly expected, teachers varied in the abilities and experience. Some teachers commented on this issue by claiming that the instruction was either too fast or too slow for their ability. Facilitators should explicitly consider and address the different skills and abilities of the teachers participating in the project when planning sessions.

iTraining Session Evaluation

iTraining Workshop

A1

In order to better plan for future activities, we would be grateful to receive your comments on the iTraining session you recently attended. Kindly complete this short questionnaire to share your views with us. Please be assured that your responses will be completely anonymous.

1. Please use the drop-down menus below to enter your unique code, which will help us organize and keep track of survey responses.

	First letter of your mother's maiden name	Second letter of your mother's maiden name	Your Birth Month	Your Birth Day
My Unique Code	▼	▼	▼	▼

2. Which session did you most recently attend?

- ○ September 19
- ○ October 17
- ○ November 21

A1

iTraining Session Evaluation

3. Please read the statements below, and choose the options that best represent your opinion.

	Disagree	Somewhat Disagree	Somewhat Agree	Agree
The session was engaging.	○	○	○	○
The specific content that was addressed and examples used during the session were relevant to my professional practice.	○	○	○	○
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	○	○	○	○
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	○	○	○	○
The facilitator was well prepared and organized.	○	○	○	○

Feel free to provide an explanation for any of your responses above.

iTraining Session Evaluation

4. Please read the statements below, and choose the options that best represent your opinion.

	Disagree	Somewhat Disagree	Somewhat Agree	Agree
I left the session with tools/resources that I will use in my classroom this school year.	○	○	○	○
I left the session with new skills that I will use in my classroom this school year.	○	○	○	○
I will share what I've learned at the session with my colleagues.	○	○	○	○
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	○	○	○	○
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	○	○	○	○

Feel free to provide an explanation for any of your responses above.

iTraining Session Evaluation

5. Please tell us about your perceptions of the session in your own words. You can include comments (good or bad) about the session, as well as your perceptions about the value and applicability of the information presented during the session.

Your comments here are often the most valuable for the evaluation of the session, so please answer thoroughly and honestly.

6. If you have any suggestions for how the session could have been better, please include them below.

Thank you for your cooperation!

iTraining Technology Attitudes and Usage Survey

Your Unique Code

Thank you for taking the time to complete this survey. Your cooperation is very much appreciated, and your honest input is absolutely invaluable for the continuation of projects like iTraining.

Please use the drop-down menus to enter your unique code, which will used to keep track of your responses during the evaluation of this project.

	First letter of your mother's maiden name	Second letter of your mother's maiden name	Your birth month	Your birth day
My Unique Code	[▼]	[▼]	[▼]	[▼]

iTraining Technology Attitudes and Usage Survey

Beliefs About Using Mobile Technology Integration

(modified from Enochs & Riggs, 1993)

Directions: Please indicate the degree to which you agree or disagree with each statement below by checking the appropriate category for each statement.

We are defining "mobile technology" to include devices such as iPads as well as the applications (or apps) that can be used on the devices.

I am continually finding better ways to use mobile technology for instructional purposes.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I know the steps that are necessary to effectively integrate mobile technology into my classroom lessons.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I am not very effective at monitoring my students' use of mobile technology in the classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I understand mobile technology well enough to be able to effectively use it in my classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I find it difficult to help students who have trouble using mobile technology in my classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I know how to use mobile technology to enhance my classroom lessons.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I have the necessary skills and knowledge to integrate mobile technology into my classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I am typically able to answer my students' questions about using mobile technology in the classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I know how to engage my students using mobile technology.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I am able to effectively manage a digital classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I know how to use mobile technology to professionally collaborate with other teachers.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

I am effective at using mobile technology in the classroom.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Using Mobile Apps in Your Classroom

Please choose how FAMILIAR you are, how FREQUENTLY you use, and how PREPARED you feel to use the following mobile apps:

	How FAMILIAR are you with this app?	About how FREQUENTLY do you use this app for instructional purposes?	How PREPARED do you feel to use this app for instructional purposes?
iBooks Author	▼	▼	▼
Pages	▼	▼	▼
Numbers	▼	▼	▼
Keynote	▼	▼	▼
Teacher Assistant Pro	▼	▼	▼
Problem Based Learning Experiences	▼	▼	▼
Essay Grader	▼	▼	▼
Notability	▼	▼	▼
Bento	▼	▼	▼
KikStart	▼	▼	▼
TouchApp Creator	▼	▼	▼
The Elements	▼	▼	▼
Barefoot World Atlas	▼	▼	▼
State Bingo & Road Trip	▼	▼	▼
Stack the States	▼	▼	▼
Mathination	▼	▼	▼
Frog Dissection	▼	▼	▼

What is your gender?

○ Female

○ Male

What grade(s) do you teach?

☐ PreK to 2

☐ 3 to 5

☐ 6 to 8

☐ 9 to 12

How many years (counting this one) have you been teaching?

Thanks so much for your cooperation!!

iTraining

Session Quality

Survey Items	Responses (out of 23)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	0% (0)	0% (0)	17.4% (4)	82.6% (19)	1.83
The specific content that was addressed and examples used during the session were relevant to my professional practice.	0% (0)	4.3% (1)	13% (3)	82.6% (19)	1.74
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	0% (0)	4.3% (1)	8.7% (2)	87% (20)	1.78
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	0% (0)	0% (0)	8.7% (2)	91.3% (21)	1.91
The facilitator was well prepared and organized.	0% (0)	0% (0)	8.7% (2)	91.3% (21)	1.91
Total Session Quality	0% (0)	1.7% (2)	11.3% (13)	87% (100)	1.83

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- Ms. Hench was well prepared and really provided exactly what I wanted as a classroom teacher!

- The session was awesome. I learned so much.

- I am looking for apps that would work for K-2. Due to technical difficulties things didn't run or work smoothly

Session Impact

Survey Item	Responses (out of 23)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	4.3% (1)	0% (0)	17.4% (4)	78.3% (18)	1.65
I left the session with new skills that I will use in my classroom this school year.	4.3% (1)	0% (0)	17.4% (4)	78.3% (18)	1.65
I will share what I've learned at the session with my colleagues.	4.3% (1)	0% (0)	21.7% (5)	73.9% (17)	1.61
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	0% (0)	0% (0)	30.4% (7)	69.6% (16)	1.7
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	0% (0)	0% (0)	21.7% (5)	69.6% (16)	1.61
Total Session Impact	2.6% (3)	0% (0)	21.7% (25)	73.9% (85)	1.64

The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

None Provided

Participants' Perceptions of the Session

- What was shared was something that each and every teacher could take back and use right away. I liked that we had hands on experience and were able to discuss the pros and cons.

- I really enjoyed the session and loved the apps. I think it is hard to meet the needs of the various age levels and also various levels of experience. I really liked the cooperative learning activity which gave us an opportunity to play and explore.

- I thought the instruction was very appropriate for the various levels of expertise on the ipad, and the time flew by.

- I always like to attend professional development with an open mind, but I did not feel I learned a great deal more than I already knew. Some apps were new to me, but overall it was more of a review session.

- I appreciate any ideas and suggestions about using technology in the classroom.

- I am interested in apps that I could use in my classroom that would help with writing practice as well as vocabulary/spelling.

- I felt that the pace of the seminar was very beneficial and it allowed us to interact with other teachers to see what they were using in their classrooms, and I enjoyed working together on the apps to gather ideas on how to implement them in the classroom.

- The session was perfect! It kept me very focus and involved

- Very practical and well organized

- I didn't really know what to expect. I was hoping it would not be over my head. It was perfect. We were given a lot of information but it was not overwhelming. it was one of the best sessions I've been to.

- I thought the first session was great. I was given ideas for better classroom management when handling technology. Also, the apps and time to experience each was very helpful.

- The information at the beginning of the presentation was below what my colleagues needed, but feel there were others who DID need a more basic explanation.

- Very hands on and well worth it.

- The presenters were well prepared and very knowledgeable. The time went quickly and I learned a lot

- Loved it. Very informative. It was very insightful! i can not wait until the next session.

- It is difficult to engage the variety of levels and needs of all teachers. She truly tried to do her best to help us all... just not always possible.

- I believe the apps would be very useful in some classes. The hardest part will be getting the time to use them. It was interesting to see the apps being used in a variety of ways.

- I found the session very informative. I liked hearing about the different apps. I also understand working with others on the the apps. I would find it even better if we could have worked with others from our own school. The school days are full of daily routine talk so when we get a chance to work with our colleagues on other things it is beneficial. Each school has their own issues with technology so it would be nice to collaborate with my colleagues.

- The into to the apps was great! I would like to be able to discuss with school colleagues on ways to use rather than random partnering since schools often have different technology available to them.

- I appreciated being given time to explore the apps suggested.

Suggestions Offered by Participants

- Could we preload the programs we are using so that it doesn't waste time in loading. There is so much to learn in such limited time. This would give us more time with using it.

- I think it would be helpful to stop and make sure people are on the same page and are understanding what is being presented rather than cruising through the agenda.

- If time allows, it would be helpful to spend it exploring the apps and sharing with collegues.

- It was good, but I thought I would learn more advanced ideas.

- I am really looking for specific ways to use technology to help meet all the content standards we need to meet. I don't necessarily want a lot of things that are just for fun, or extra. I want to use it to teach the things I need my students to master.

- It was wonderful!

- Almost too much for me to handle in one session!

- Need more time to explore and use the new apps introduced. I would like to work with the person I actually work with at school so we can create something we could actually use. We are both attending the sessions.

- We need apps that will help us fulfill the common core standards at our level.

- The snacks provided were welcome... but maybe something more substantial?? We all were coming from a full work day with no time to stop home. our 15-20 minute lunch break doesn't allow for much of a lunch, so we were hungry! The pretzels were great. maybe some granola bars??

iTraining

Session Evaluation Summary:
October 17, 2013

Session Quality

Survey Items	Responses (out of 22)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	0% (0)	0% (0)	13.6% (3)	86.4% (19)	1.86
The specific content that was addressed and examples used during the session were relevant to my professional practice.	0% (0)	0% (0)	9.1% (2)	90.9% (20)	1.91
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	0% (0)	0% (0)	22.7% (5)	77.3% (17)	1.77
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	0% (0)	0% (0)	22.7% (5)	77.3% (17)	1.77
The facilitator was well prepared and organized.	0% (0)	0% (0)	4.5% (1)	90.9% (20)	1.86
Total Session Quality	0% (0)	0% (0)	14.5% (16)	84.5% (93)	1.84

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- The session did not go quite as well as the first one, but it was due to circumstances out of the presenter's control, and I totally understand that. I appreciated the time to work with my coworker on apps that we could implement into our lessons.

- Beth does a great job!

- We had trouble downloading because there were so many of us.

Session Impact

Survey Item	Responses (out of 22)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	0% (0)	0% (0)	13.6% (3)	86.4% (19)	1.86
I left the session with new skills that I will use in my classroom this school year.	0% (0)	0% (0)	31.8% (7)	68.2% (15)	1.68
I will share what I've learned at the session with my colleagues.	0% (0)	0% (0)	31.8% (7)	68.2% (15)	1.68
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	0% (0)	0% (0)	36.4% (8)	63.6% (14)	1.64
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	0% (0)	0% (0)	36.4% (8)	63.6% (14)	1.64
Total Session Impact	0% (0)	0% (0)	30% (33)	70% (77)	1.7

The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

None Provided

Participants' Perceptions of the Session

- I thought the session was very engaging and helpful. We got to work with our home school to create a lesson, which was extremely useful and I would like the opportunity to do that more often.

- The session is good on learning new apps used in the classroom. I would like to know more on how to manage the ipads in the classroom. How do students share their finished work?? How are things assessed.

- I believe there were a lot of good apps presented, but it will take some time to see which ones will work in each school. I liked how everyone was interested in helping each other find usefull apps that might work for their individual class needs.

- I liked discovering new apps that I can integrate into my classroom. I would love some sort of handout that lists alphabetically all apps, appropriate grade level and applications. With soooo many apps available it is hard to remember them and what they do.

- I enjoyed discussing the aps and the ways to use them with the other people from my district.

- The session is great and working with others on how they are using the I pads in the classroom is very helpful! Especially for the similar grade levels and subjects:)

- Working with colleagues was VERY beneficial! We were able to collaborate K-2 effectively.

- I liked having the time to work with my coworker and being able to find apps that we could use in our specific grade level.

- The internet issues this session made it less valuable than lesson 1. Spent way too much time on the downloads. Hard to explore and plan when waiting for it to download.

- I really like that every minute was utilized effectively. I liked the idea of brewing grouped with colleagues in the same school this time. We were able to work with teachers that we see but never get to talk to throughout the day at school. We shared some great ideas. I also liked sharing with the other schools in our last meeting as we grouped with other schools.

- The session was very good. The technology was not working properly (through no human error) so that hindered what we wanted to do in the session, but the ideas presented in the session were very good.

- I really enjoyed collaborating with other colleagues

- We were given time to explore different sights which was amazing.

- It was very valuable for us to sit as a school and talk about different apps that would work at different grade levels

- I felt that it was very effective having the chance to work with the other teachers in our school district.

- It was great. The collaboration was perfect.

- I really liked the fact that there were different apps introduced and that we were able to explore these apps by subject. I could have done that for a longer period of time. I am not good at short notice types of assignments. I need quiet and time to think about planning lessons. Therefore the last half hour of the session was not productive for me. I could not concentrate on a lesson due to noise and my inability to work in the time frame of a half hour. However, I know that I can use some of the apps to promote the standards in my daily plans.

- NO ONES fault but it was hard not being able to download apps due to broadband. We couldn't see the app and discuss it very well.

- The various apps were interesting and it was nice to have time to explore them, and to hear how other teachers use them.

- I liked seeing how to incorporate the I pad into a lesson. I got some very good ideas.

- Beth was well organized and shared MUCH valuable information with us. It was especially helpful to be able to work with others from my school to collaborate.

Suggestions Offered by Participants

- I thought it was quite appropriate. Thanks for the knowledge

- Maybe some actual work on Schoology and remind 101 as they are something we have and are to try to use.

- Just keep doing what your are doing now! You are doing a great job and we are learning to find great resources.

- Have a list of items to download ahead of time so we do not waist time uploading.

- I would like to know some of the benefits of programs like schoology, icloud, and dropbox at the elementary level.

- Continue to share apps that would be suitable for primary students especially K-2 apps. Thanks

- For me, I would like to have a session where one thing (app, etc.) is introduced and demonstrated then we are given a little time to explore that app. I like to see examples and then "play around" with it for a while before moving on to the next app. It becomes a bit overwhelming when everything is introduced then we are asked to explore. Overall though I think Session 1 & 2 have been good learning sessions.

- Send out a list of apps (free) and have apps download prior to attending.

- For our next class, I would like to have downloaded what we will be working with. This would give me a better chance to use the program and be able to use it in my classroom more effectively.

iTraining

Session Quality

Survey Items	Responses (out of 24)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	0% (0)	0% (0)	12.5% (3)	87.5% (21)	1.88
The specific content that was addressed and examples used during the session were relevant to my professional practice.	0% (0)	0% (0)	16.7% (4)	83.3% (20)	1.83
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	0% (0)	0% (0)	20.8% (5)	79.2% (19)	1.79
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	0% (0)	0% (0)	4.2% (1)	95.8% (23)	1.96
The facilitator was well prepared and organized.	0% (0)	0% (0)	8.3% (2)	91.7% (22)	1.92
Total Session Quality	0% (0)	0% (0)	12.5% (15)	87.5% (105)	1.88

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- Not being able to login made it a bit cumbersome.

- She did a great job trying to share apps with a wide range of students. she gave us time to share with other teachers from our district.

- Beth did an excellent job. I wish I was so knowledgeable about Ipads.

- The time to discuss with peers and colleagues was always VERY appreciated and beneficial! It is Sooo difficult to find common time to do this in mad out of the school day! It was great to be able to share tech ideas!!!!

- It was really great offering the sites ahead of time so that we would be able to get to them as they were presented.

- Beth did a great job presenting.

- Time was given to explore many apps.

Session Impact

Survey Item	Responses (out of 24)				Mean Rating*
	Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	0% (0)	0% (0)	12.5% (3)	87.5% (21)	1.88
I left the session with new skills that I will use in my classroom this school year.	0% (0)	0% (0)	16.7% (4)	83.3% (20)	1.83
I will share what I've learned at the session with my colleagues.	0% (0)	0% (0)	16.7% (4)	83.3% (20)	1.83
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	0% (0)	0% (0)	8.3% (2)	91.7% (22)	1.92
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	0% (0)	0% (0)	12.5% (3)	87.5% (21)	1.88
Total Session Impact	0% (0)	0% (0)	13.3% (16)	86.7% (104)	1.87

The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- The only hiccup is the capabilities/limitations of the technology in our building
- I'm glad I went to the sessions because I am now more confident using the Ipad.
- The teachers I work with were also able to attend the sessions.

Participants' Perceptions of the Session

- I really enjoyed the training series. It's nice to spend time with coworkers to have time to discuss and share ideas about implementing technology in the classroom. It is also valuable to become aware of useful technology that is available for our students in the classroom.

- Sessions were great. Well planned. I just wish we hadn't experienced "technical difficulties".

- I found (was showed) some valuable apps that I am excited to use in my classroom. Some things that were wasted time were printing and sharing options since my school does not allow either from the ipads.

- I learned how to use the Ipad. This is my first and only time I have been taught to use this tool. I am feeling more comfortable with it.

- loved the session! Lots of great info especailly from working with other teachers!

- I really enjoyed this session, as well as the last 3, and I would recommend this workshop to others.

- I felt that each session was different and it was a good mix of including us as students listening to her presentation and then we were able to actively participatate.

- Beth did a great job showing new apps and explaining them. A worthwhile program for all.

- I thought all 3 sessions were very worthwhile. I learned a lot of useful information.

- Excellent use of session. Loved being able tomworkmwith peers to explore various apps and technology uses.

- Beth was always prepared and organized! Much appreciated!

- The flow of the presentation is set up just like a teacher would want things to go. Smoothly and right on target. It has been a great experience to share and have hands on experience. The presenter was excellent.

- The apps are all great to have and learn about

- There was a lot of information on new apps in a short amount of time, but it was nice to see that there are a lot of resources to study further. I really enjoyed the sessions and believe many of the apps will be useful this school year.

- I really enjoyed all 3 sessions and got a lot of information in a short period of time. It was all relevant to teaching younger students. Beth Hench did an excellent job keeping things moving so that everything could be covered in the short amount of time that we had. Most participants begged for more time to just explore various apps on their own. Time is always going to be an issue. The iTunes $ was very much needed and appreciated!!! THANKS!!!

- The three sessions were well worth my time to attend. The apps for the ipad are ones that I can use in my teaching. The entire process (from registering to the last session) was very well organized.

- Time was given to explore apps. Downloading them ahead of time was very beneficial .

- Loved it. I learned a lot.

- The sessions were very informative. I will use the information in my classroom.

- This was a little too much info to digest.

Suggestions Offered by Participants

- I would like to see update sessions available in the future.

- Not sure how to conquer problems with all participants having login problems??

- These classes were a little advanced for me since I came in at such a beginning level.

- It wasn't always easy to log on and work at the same time with so many in the session group.

- I thought it was very worthwhile and all teachers are very busy so I appreciated it being one night a month.

- Plenty of time to "play" with new apps and to discuss with colleagues and or grade level.

- I would love to have a presentation at the schools for professional development. :)

- More ideas for kindergarten level apps

- I would just like more time to explore and play with the apps. There was so much to share that I didn't have enough time to explore.

- It was great! The only thing that would be helpful is to get us the apps sooner to download. Thanks for all of the valuable information.

- Emailing the apps that needed to be download a day or two earlier would have helped.

iTraining

Session Evaluation Summary:
January16, 2014

Session Quality

Survey Items	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	30	0% (0)	0% (0)	33.3% (10)	66.7% (20)	1.67
The specific content that was addressed and examples used during the session were relevant to my professional practice.	30	0% (0)	3.3% (1)	40% (12)	56.7% (17)	1.5
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	30	0% (0)	10% (3)	30% (9)	60% (18)	1.4
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	30	0% (0)	0% (0)	30% (9)	70% (21)	1.7
The facilitator was well prepared and organized.	30	0% (0)	0% (0)	10% (3)	90% (27)	1.9
Total Session Quality	150	0% (0)	2.7% (4)	28.7% (43)	68.7% (103)	1.63

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- I feel I needed more time to walk through how to use certain apps.

- Topic was not explored thoroughly. Would have liked time immediately after learning each app to work with each.

- I wish I would have been able to preview the 'paid' apps before purchase to discover pros/cons. I spent money on something I really don't ever see myself using :(BIG bummer!

- in all technical clinics.. we as the "student" always want more practice. I left thinking he did a great job of offering feedback and examples.

- I believe Dan was very prepared and that he has expertise in using apps. Its just that I don't think his purpose was go go deep into any app, just show us enough to get us started -to get us to imagine the possiblities of using the app with students. We will all need to go deeper into the apps as we use them more.

- I wish we would have had some time to explore the apps. The speed of the session was so fast, I wanted to explore each app a little before moving on.

Session Impact

Survey Item	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	29	0% (0)	6.9% (2)	37.9% (11)	55.2% (16)	1.41
I left the session with new skills that I will use in my classroom this school year.	29	0% (0)	10.3% (3)	48.3% (14)	41.4% (12)	1.21
I will share what I've learned at the session with my colleagues.	29	0% (0)	3.4% (1)	27.6% (8)	69% (20)	1.62
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	29	0% (0)	10.3% (3)	27.6% (8)	62.1% (18)	1.41
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	29	0% (0)	10.3% (3)	31% (9)	58.6% (17)	1.38
Total Session Impact	145	0% (0)	8.3% (12)	34.5% (50)	57.2% (83)	1.41

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- I still have a long way to go!!

- I do not feel that I have a "good grasp" on things with out exploring first.

- Not sure how to implement with 30 students every 40 minutes. I have an understanding of the apps, but not sure how to smoothly use in my classroom.

Participants' Perceptions of the Session

- I walked away knowing more than when I came in which is always a good thing. Our presenter appeared very knowledgeable about what he covered.

- It was good, but I think it would have been better to focus on less apps. I think it would be nice to learn less apps in more detail.

- I liked the fact that all the apps were similar in nature. That is, all the apps discussed were used to provide student engagement. Also, most of the apps shown were apps that can be used through web browser.

- I appreciate the opportunity to receive training on the iPad and receive the new apps. I can see value in the majority of the apps and would like to use them with my students. Some technology limitations in my room and limited availabillty of iPads will be hurdles I will need to overcome.

- I felt that the session went well. Because of time restrictions, the facilitator had to go through some of the apps pretty quick. However, we did get time at the end to try some of the apps which was a great benefit. Also, being able to work with others at the end was helpful with others thoughts and ideas.

- There were some neat apps shown but not sure I will use any in my day to day teaching.

- Excellent instructor.

- The three hours went by very quickly. I got overwhelmed when we broke down into small groups to apply the info. There was a lot of information for the apps and I just didn't know where to start with the subject I was assigned.

- I came into class knowing just a small bit about Schoology and how to search the internet. I am already trying to work in how to use the aps I learned about in our first session.

- The information presented was useful. I need time to play around with the apps before I feel more comfortable.

- Gary was very prepared with a lot of information. Depending on subject area, some apps will be very useful. I'm looking forward to learning content-specific apps!

- Seating was tight. Ran through each app quickly

- This session was very helpful because it gave me ideas of new and exciting apps to use in the classroom. Most of the applications I had never even heard of before. The kids in my classroom will absolutely love the hands on learning. I am going to try them out for different lessons.

- The training session included a lot of interesting apps, however I would like to see more apps that are specific to my content area.

- Gary did a great job! I left with a great confidence in using this technology in my classroom. When I came in, I had NO idea how I would ever use iPads in my room... now I have some great ideas. Thank you

- I learned about many good websites and apps to use for my classroom which I am looking forward to using. Overall though it was very good and educational.

- I thought the session was well-organized with time to learn about and try out a variety of new apps, then work with other educators to create something with one of the new tools. It did feel a little rushed during the first part, having a little more time to practice using the apps would have been useful. The packet with room for notes on each app was very helpful, it was nice to have room for notes that I can refer to when trying the apps out later. Overall it was well planned and presented. I look forward to utilizing some of the new apps in my classroom.

- A lot of good material

- Very informative and eased a lot of my apprehension about integrating the iPad into my classroom.

- Gary had everything ready to go. Presentation had real examples of projects created and only took him a couple of minutes to create.

- I thought it was great. I learned about alot of apps I didn't know existed. I really liked the relaxed atmosphere of the class-great learning environment! I actually enjoyed myself and had fun.

- Enjoyed learning about all the apps. I would like to see lesson units on how to integrate.

- Great apps... Maybe allow more time to brainstorm use in class

Suggestions Offered by Participants

- A smaller group with more individualized instruction would be extremely helpful. A suggestion would be to have the other facilitators break the large group into smaller groups for further instruction on how to utilize the apps maneuver through them.

- More information on less apps.

- I don't think the next session should be changed. I got some useful information for my classroom.

- None at this time

- It was great. I liked the extra help that was provided to me to get started. I wam looking forward to the next session where I can get with other fellow Science teachers.

- Allow time to explore each app as soon as it's introduced. :)

- No suggestions thus far

- A little bit more explanation on some of the apps would have been better. Was a little confused about how to use some of them.

- Again, just a little more time to work with the apps individually as we worked through them would have been useful.

- Let people explore the apps!!

- Make sure any work that needs to be done before the class is given to us with plenty of time to complete it. It's hard to get it done only hours before the class is to meet when we are at work all day.

- Instructor did a good job - was well prepared and very knowledgable.

- Please move the next session to a different classroom that is NOT across the hall from a Tap Dance Class...way too noisy and distracting!!! The room was a little cramped for 35+ people in attendance.

iTraining

Session Evaluation Summary:
February 20, 2014

Session Quality

Survey Items	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	32	0% (0)	0% (0)	21.9% (7)	78.1% (25)	1.78
The specific content that was addressed and examples used during the session were relevant to my professional practice.	32	0% (0)	0% (0)	18.8% (6)	81.3% (26)	1.81
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	32	0% (0)	0% (0)	18.8% (6)	81.3% (26)	1.81
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	32	0% (0)	3.1% (1)	21.9% (7)	75% (24)	1.69
The facilitator was well prepared and organized.	32	0% (0)	3.1% (1)	9.4% (3)	87.5% (28)	1.81
Total Session Quality	160	0% (0)	1.3% (2)	18.1% (29)	80.6% (129)	1.78

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- I really enjoyed being able to discuss apps in content areas. A lot of times we hear of general apps (or kindergarten math) that are good, but not useful in a high school math classroom.

- LOVED having time to meet with my content area

- Just needed to give specific guidelines for what was expected to be posted at end of session

- With a room full of diverse content area teachers, it's hard to cover every subject - but I thought the session went well and did try to assist each subject as much as possible.

- did a good job of walking around and discussing other apps

- Enjoyed collaborating with other teachers teaching the same content.

- Excellent workshop. Very applicable sites and aps from Gary as well as the other science teachers.

Session Impact

Survey Item	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	31	0% (0)	3.2% (1)	19.4% (6)	77.4% (24)	1.71
I left the session with new skills that I will use in my classroom this school year.	31	0% (0)	9.7% (3)	22.6% (7)	67.7% (21)	1.48
I will share what I've learned at the session with my colleagues.	31	0% (0)	3.2% (1)	16.1% (5)	80.6% (25)	1.74
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	31	0% (0)	0% (0)	41.9% (13)	58.1% (18)	1.58
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	31	0% (0)	0% (0)	38.7% (12)	61.3% (19)	1.61
Total Session Impact	155	0% (0)	3.2% (5)	27.7% (43)	69% (107)	1.63

The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- Wish there would have been a more in-depth list for ELA/Reading

- The session was great! I appreciated the time and iTunes card in order to locate and buy apps specific to my content area. The sharing at the end of the session gave us the opportunity to share some of our "finds" with our colleagues. THANK YOU so much for providing us with such a great opportunity!

- I would like to hear from teachers who are completely paperless how they implement this everyday in the classroom.

- There are few apps that are useful for HS ELA

Participants' Perceptions of the Session

- Good apps but not much for junior high reading/language arts class. Just don't know how I will incorporate them in my classroom yet.

- Most valuable was getting with peers to discuss the various apps that they use.

- Very useful only working with my fellow Science teachers and learning how they used the tech in their classrooms.

- Allowing time to network with other science teachers in the area was valuable. I have ideas on what is working in other districts.

- Like I commented before, I thought it was excellent being able to discuss apps in content areas. There was a lot of us in math so we were able to have some very good discussions and hear about a wide variety of uses and applications of the iPad. This discussion did last a little longer than necessary towards the end as we started to get off topic.

- I enjoyed this session. I received so many great apps to use in my classroom and the time to work together and explore them was great.Learned alot of new things. I am looking forward to using these in my classroom and sharing them with others. Thank you!

- The room was cold - made it hard to focus.   Did not like having pictures taken.   Liked not having to buy all the apps first, but rather demoed first then I could choose which apps I can purchase. Last time I bought apps and then viewed them---many that I will never use.

- I really enjoyed the session. As an iPad user, I was able to show other Math teachers tools I have used and are currently using. I also was shown some tools that I would use.

- The information presented in this session was very helpful and thorough in explaining how we could use these applications in our classroom. In fact, I came back to class the next day and used three applications that I had just learned the night before at this at the itraining.

- I enjoyed the list of apps found for us and the time to network with others and find new apps

- I liked that this session was more specific to our subject area.

- I liked the way we could work together with other teachers in our own area. I got some good suggestions and information from the other teachers as well as sharing the different apps we were finding. This saves time when looking through all the apps out there. I have used and am currently using some apps and things I learned in this class already. It was a good class.

- the time to network with other teachers in our content area expanded our search for apps. Was helpful.

- I have apps that would be helpful. However, because not all of our students have their own devices, I don't know how to use this in the classroom for more than reinforcement. I would like to know what I can do when I only have access to the school ipads for one day per week.

- Appreciated the time to explore the apps. I was able to bring back some of the apps to my school for myself, and I showed other teachers at our school the apps that were presented.

- I enjoyed the open working time -- as another teacher said towards the beginning of the session, it's one thing to come and discover all the different apps and websites that could be used, but having time to sit down and work with them, develop materials to actually use, is another thing. Having time set aside for not only learning about new apps but playing with them was beneficial. The larger space was also appreciated!!

- This session was much better than the first. I think as educators, we like to experiment with the apps that are out there. Great session!!

- good session. It was nice working with others in our area and discussing what we find that works

- It was nice to have time and money to purchase and check out apps specific to my content. Thanks!

- I loved the augmented reality apps. These were absolutely amazing, and I found myself showing my coworkers how these worked the following day at school. I also enjoyed working with teachers in my own teaching field. We had wonderful discussions on how to use different apps in class, we also shared additional apps that were not on the list.

- Time to research and purchase content-specific apps was a dream come true! It was great to hear about the findings of others also.

- I thought it was great. Being in special education I appreciated hearing feedback regarding the apps from each content area.

- Thank you for moving to a larger room!

- Gary has done a great job of preparing for our sessions, and is willing to help.

- Session was well organized. Now I would like to hear how to go completely paperless.

- I enjoyed networking by subject area with other teachers in the county.

- EXCELLENT WORKSHOP. Being with other science teachers and sharing how tehnology is untilized in their classrooms is so enriching. The sites Gary shared were incerdibly valuable and applicable.

Suggestions Offered by Participants

- Was good!

- It went great!

- We didn't need quite as much time to work in groups - 4-6 or 4-6:30 would be plenty of time

- Being that I only have two ipads in my classroom for the students to use, could you address ways and applications to use as a whole class with fewer ipads rather than one to one (student to ipad) ratio?

- I just want to note that I have really enjoyed the training sessions. As an educator I have attended many training sessions that don't feel worth it, this is not one of the them. I have learned so much and have even had fun. Also I feel Gary does a wonderful job.

- *Share more ways to utilize just one iPad in the classroom. *The room was too cold.

- I have no suggestions for this session. The knowledge in the other teachers is a great source of information.

iTraining

Session Quality

Survey Items	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
The session was engaging.	30	0% (0)	0% (0)	33.3% (10)	66.7% (20)	1.67
The specific content that was addressed and examples used during the session were relevant to my professional practice.	30	0% (0)	3.3% (1)	33.3% (10)	63.3% (19)	1.57
The session was structured in a way that allowed the topic to be addressed clearly and thoroughly.	30	0% (0)	3.3% (1)	26.7% (8)	70% (21)	1.63
The facilitator demonstrated a deep level of expertise in the topic addressed during the session.	30	0% (0)	0% (0)	23.3% (7)	76.7% (23)	1.77
The facilitator was well prepared and organized.	30	0% (0)	3.3% (1)	3.3% (1)	93.3% (28)	1.87
Total Session Quality	150	0% (0)	2% (3)	24% (36)	74% (111)	1.7

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- Through a survey of the participants before the evening. It was decided that 30 minutes would be given to work with content area teachers and 30 minutes would be given to work with your colleauges at your school. I was the only teacher from my school, so I didn't want to take away from another school's time together so I used the time to play around with some apps myself. This was useful too.

- I enjoyed how the instructor gave a presentation on material and then gave time for the teachers to discuss and share how it can be used.

Session Impact

Survey Item	N	Responses				Mean Rating*
		Disagree	Somewhat Disagree	Somewhat Agree	Agree	
I left the session with tools/resources that I will use in my classroom this school year.	30	0% (0)	0% (0)	23.3% (7)	76.7% (23)	1.77
I left the session with new skills that I will use in my classroom this school year.	30	0% (0)	3.3% (1)	26.7% (8)	70% (21)	1.63
I will share what I've learned at the session with my colleagues.	30	0% (0)	0% (0)	26.7% (8)	73.3% (22)	1.73
As a result of attending the session, I have a better understanding of how to integrate mobile technology in the classroom.	30	0% (0)	6.7% (2)	20% (6)	73.3% (22)	1.6
As a result of attending the session, I feel more prepared to integrate mobile technology in the classroom.	30	0% (0)	6.7% (2)	23.3% (7)	70% (21)	1.57
Total Session Impact	150	0% (0)	3.3% (5)	24% (36)	72.7% (109)	1.66

* The scale for these items ranges from -2 to +2. Therefore, a positive mean rating represents positive responses (agreement) and a negative mean rating represents negative responses (disagreement).

Explanations Provided for Above Responses:

- There are just so many apps out there. I need time to get more comfortable and sort out the apps that best fit my classroom. I can do this now in my "spare" time.

- I am starting to use a few apps this week.

Participants' Perceptions of the Session

- We sometimes moved very fast and it was hard to keep up.

- Nice integration of showing apps, allowing time to "play" with them, and collaborative time with both districts and content areas.

- This was a great workshop. Love all of the help and resources that were given.

- The session was designed to allow teachers to use apps/sites to engage students and make the classroom management more effective. I think the objectives of the session were met.

- The session was worth while and interesting.

- I am very excited about the assessment apps that were shared. Some of the classroom management is more useful in classrooms with the same students all day.

- I really enjoyed this session. Learned new things that will benefit my students in my classroom. Really glad I had the opportunity to go to these.

- The information was very wide ranged and I obtained sites that were beneficial for my classroom. The thing I appreciated most about this class was the opportunity to explore and attempt to use those resources we were exposed to. That time often is what is lacking in my schedule to seal my knowledge and confidence enough to utilize it in the future. .

- I love finding out about new apps and what they can do, but I still don't feel prepared to use them in my classroom.

- I liked the session because many of the apps talked about were ones I had never looked at or thought about using. I liked a couple of them and am trying to use them in the classroom. I always thought of apps as being for the kids not just for teachers as classroom management.

- I liked all of the resources; however, I always felt we were moving quickly when we were exploring them

- Very good- did a better job of covering actual use of apps and let us discuss.

- I have gained new insight to the technology and applications that I can use in my classroom as a teaching or assessment tool.

- Loved that we broke into groups of content area and district. Just discussing ideas with other educators is so nice. We are not given enough time and opportunities to do that. It was great!

- I enjoyed the sessions. I learned something from all three sessions to use in the classroom. The instructor was well prepared and very knowledgable about technology.

- Some of the apps seemed geared towards elementary, like the noise level apps. Also the apps that deal with attendance seemed useless since we have to enter it into ProgressBook. Having time once again to discuss apps within our content area as well a sour school was very helpful.

- Gary does a great job presenting! Enjoy collaborating with other county teachers

- I enjoyed most when I could interact with teachers with more experience than I, especially in my own content area.

- I thought the session was well-organized and the open time to collaborate with other teachers was valuable.

- I was surprised at the number of apps that can be useful (even a small degree). I thought that there should be separate sessions for the apps that were more applicable for young students as most in attendance were Middle school or higher (mostly High school)

- There was a wealth of useable information/tools shared and demonstrated in the workshop. It was great and I have already shared apps/websites with colleagues who were unable to attend. Thank you so much!!

- This training was great. It was nice to also collaborate with other teachers and share ideas.

Suggestions Offered by Participants

- Awesome session!

- More time to work on apps

- I wish we could have brought some material to create things during the session, but it was VERY useful. I don't want to take anything away from it, just a suggestion.

- On this particular session the attendance ap is not something I would use simply because we do this with our resources through the school.

- The first session was probably most beneficial...only because we were forced to use an app and create something. I don't like those activities, but I was forced to focus and learn about at least one app :)

- I wonder how some of these applications and tools can be used in a classroom where only two ipads are available for a classroom of 8 kids.

- More on how to implement the iPad when not every student has their own. For instance my class shares 2 of them.

- Have each person create a lesson and present to group.

- More classroom management and iPad management information - how to keep students on-task instead of being distracted by other movies/games/etc.

Appendix C: Technical Results of Statistical Analyses

Table 1. Statistical findings from the TAttU Survey

Scale	Matching response pairs	Pre-Project Mean (Standard Deviation)	Post-Project Mean (Standard Deviation)	t statistic	Effect size (Cohen's d)
Self-efficacy	52	2.90 (0.70)	3.64 (0.56)	9.74***	1.35
Familiarity	51	0.26 (0.31)	0.67 (0.60)	5.57***	0.78
Frequency	34	0.16 (0.31)	0.37 (0.54)	2.25*	0.38
Preparedness	34	0.30 (0.54)	0.61 (0.63)	2.47*	0.42

Table 2. Individual Item Analyses for each of the seventeen apps on the TAttU Survey

Mobile App	Familiarity		Frequency		Preparedness	
	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary
iBooks Author	.013	.021	.046	.083	.096	.013
Pages	.020	.070	.063	.084	.059	.107
Numbers	.038	.317	-	-	.317	.157
Keynote	.002	.218	.180	.084	.157	.007
Teacher Assistant Pro	.034	.000	1.00	.157	1.00	.039
Problem Based Learning Experiences	.395	.034	.157	.046	1.00	.020
Essay Grader	.713	.035	.655	.317	.414	1.00
Notability	.655	.001	1.00	.023	1.00	.007
Bento	.317	.046	1.00	1.00	1.00	1.00
KikStart	.480	.157	1.00	1.00	1.00	1.00
TouchApp Creator	.180	0.83	.317	.317	1.00	.083
The Elements	.157	.006	1.00	.317	.317	.020
Barefoot World Atlas	.180	.084	1.00	.157	.317	.276
State Bingo & Road Trip	.063	.016	.317	.046	.564	.066
Stack the States	.015	.016	.083	.096	1.00	.026
Mathination	.038	.041	1.00	.157	.317	0.59
Frog Dissection	.083	.033	1.00	.157	.317	.023