EXAMINING STUDENT AND TEACHER ATTITUDES OF EDUCATION TECHNOLOGY AND PERCEPTIONS OF EACH OTHER



A DISSERTATION BY: JASON THOMPSON

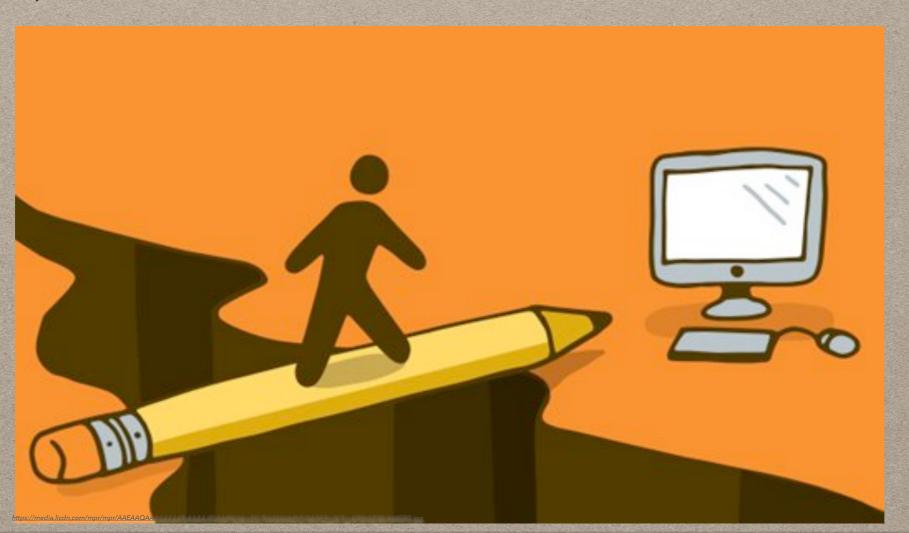
CHAPTER 1: BACKGROUND

While cyberspace has become increasingly ubiquitous in American society, enormous class, ethnic, and spatial inequalities characterize access to the US Internet (Warf, 2012).



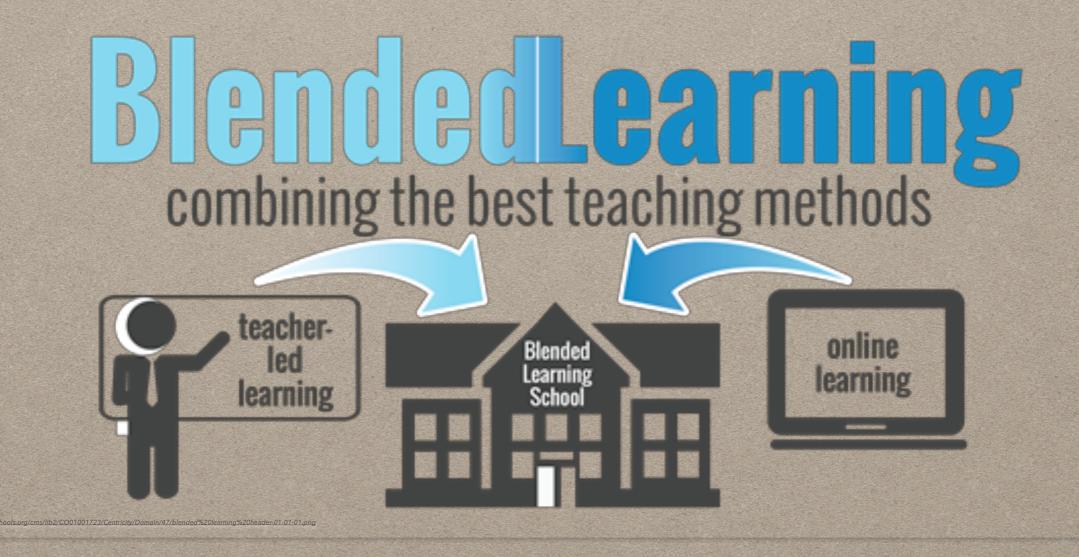
CHAPTER 1: BACKGROUND

The unique affordances of the Internet undermine constraints of social and civic inequality to an extent not achieved through previous means. (Hampton, 2010)



CHAPTER 1: BACKGROUND

Blended learning - the integration of a classroom face-to-face learning experience with an online learning experience (Garrison & Kanuka, 2004).



STATEMENT OF THE PROBLEM

The expectations of utilizing educational technology for school work exceeds the technological access capabilities of the learners and their families.

PURPOSE OF THE STUDY

The purpose of this study is to examine the attitudes of both teachers and students with respect to education technology usage in a school with a majority low SES population. While the technology and Internet access expectations being placed upon students are necessary to prepare students for the 21st century workplace. Findings from this study will help identify where and how students and teachers feel comfortable within instructional practices using education technology.

LIMITATIONS

1. This study is limited to self-reporting on the part of the students and teachers.

2. There is a relatively small number of teachers and students surveyed, therefore the findings are not generalizable

3.The researcher is a former student and employee of the school where the research was conducted.

DELIMITATIONS

1. This study was conducted at a school where a large percentage of the students qualify for free/reduced lunch status, as they come from a low-income community.

2. A 2013 survey was conducted at this school, at which time 20% of families reported having Internet access in their homes.

3. This district is currently engaging in blended learning professional development amongst their teachers.

4. The researcher, as a former student and employee of the school and district, has numerous years of interactions and understanding of the school culture.

RQS

RQ 1: How does the agreement and disagreement of teachers and students using technology as part of classroom instruction vary from each other?

RQ2: What are the differences between teachers and students in their value of the instructional enhancement of computer use during classroom instruction?

RQ3: What are the differences in how teachers and students rate the impact of education technology enhancements?

RQ4: What are the differences between how teachers and students rate their technology literacy?

RQ5: What are the differences between teachers and students regarding how much access to technology they have?

CHAPTER 2: LIT REVIEW & THEMES SUPPORTED



TERATURE REVIEW & THEMES SUPPORTED Recent History of Education Technology ADE Requirements Attitudes Towards Technology Instructional Enhancements Perceptions of the Impaction Education **Technology Enhancements Computer Literacy** Access To Technology Impacts of Poverty On Achievement Ethnicity, Gender, and Attitudes toward Technology

CHAPTER 3: METHODOLOGY GROUPS TO PROVIDE ANALYSIS FOR Student Teacher Female <3 Years Experience Male 3-5 Years Experience Hispanic 6+ Years Experience African-American Caucasian Native-American Asian-American/Pacific Islander Reduced Lunch Free Lunch

RESEARCH LOCATION *Research Procedures*

Teachers: Email with Link (Documentation in the Survey)

Students under 18: Parental form sent home by Social Studies Teachers & collected by researcher the day of survey

Students over 18: Showed researcher ID to prove age

From students who had parental permission and indicated willingness to partake in focus group, researcher invited 12 students. 4 participated (33.3%).

9 teachers expressed interest in focus group and were all invited. 4 participated (44.4%).

SURVEY: TEACHERS & STUDENTS Juniors + Seniors: Approx. 300 20 Teachers 146 Participated **11** Participated 49% 55%

THEODORE H.S.

2016-2017 Demographic & Sample Info

Ethnicity	School	Sample	
Hispanic	69%	73.3%	
African-American	14%	14.4%	
Caucasian	9%	5.5%	
Native-American	5%	4.7%	
Asian American/Pacific Islander	1%	2%	
Multi-Race	1%	2.7%	
Other	1%	0%	

SURVEY: TEACHERS & STUDENTS Toole Employed

REC

-22

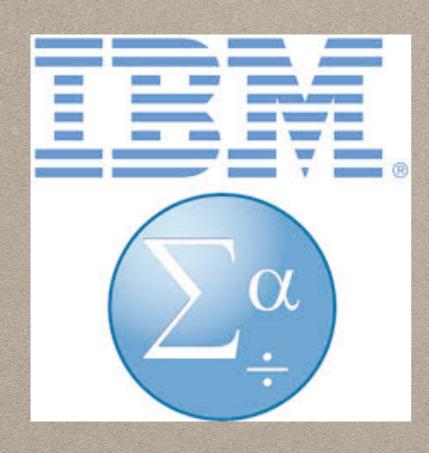
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CHAPTER 3: ANALYSIS



Likert Questions (69)
N-Way ANOVA
Gender
Ethnicity
Participant Role (Teacher/ Student)

Focus Groups (3)NVIVO coding

CHAPTER 4: DATA

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RESEARCH QUESTION 1 Section 1: Attitudes Towards Technology

1. How does the agreement and disagreement of teachers and students using technology as part of classroom instruction vary from each other?



- H₀1. There is no statistically significant difference between how teachers and students rate their attitude of using technology as part of classroom instruction.
- H1. There is a statistically significant difference between how teachers and students rate their attitude of using technology as part of classroom instruction.

RESEARCH QUESTIONS

Section 1: Attitudes Towards Technology

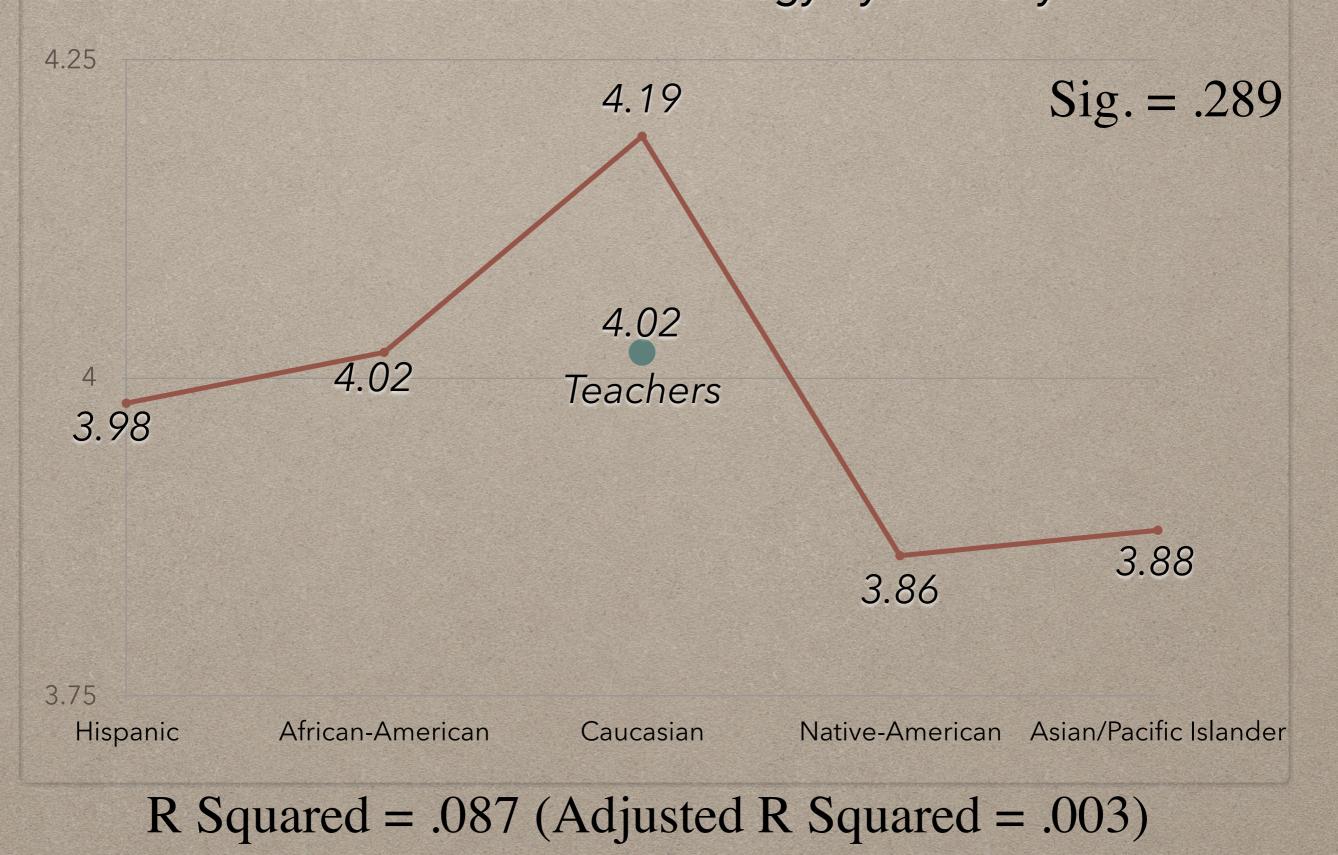
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1.	Computers do not scare me at all	1	2	3	4	5
2.	Computers make me feel uncomfortable	1	2	3	4	5
3.	I am glad there are more computers these days	1	2	3	4	5
4.	I do not like talking with others about computers	1	2	3	4	5
5.	Using computers is enjoyable	1	2	3	4	5
6.	I dislike using computers in teaching	1	2	3	4	5
7.	Computers save time and effort	1	2	3	4	5
8.	Schools would be a better place without computers	1	2	3	4	5

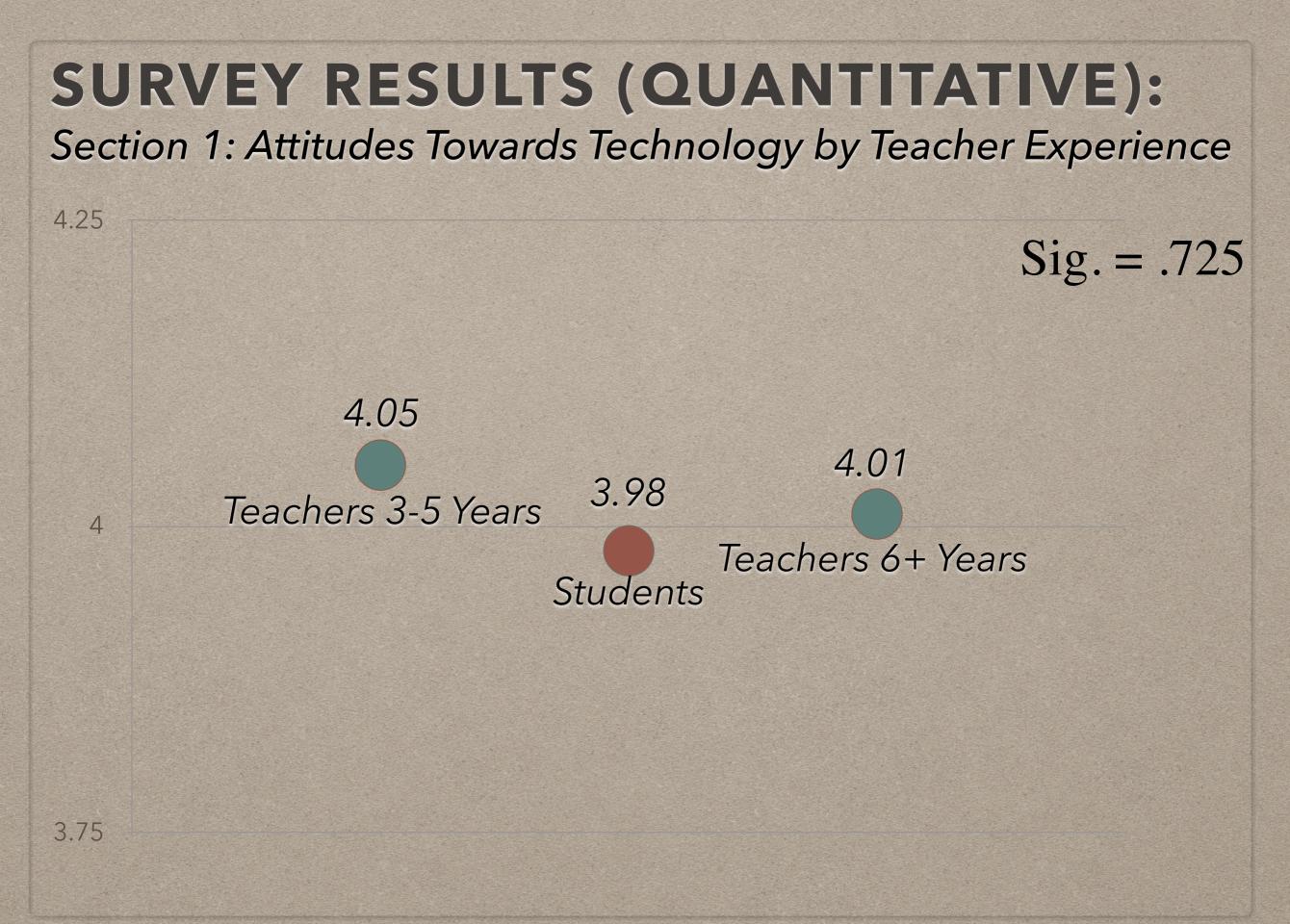
A. Albirini / Computers & Education 47 (2006) 373-398

SURVEY RESULTS (QUANTITATIVE): Section 1: Attitudes Towards Technology by Gender 4.25 Sig. = .6034.02 3.99 4 Teachers Male Students 3.91 Female Students 3.75

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SURVEY RESULTS (QUANTITATIVE): Section 1: Attitudes Towards Technology by Ethnicity





R Squared = .087 (Adjusted R Squared = .003)

FOCUS GROUP (QUALITATIVE): Section 1: Attitudes Towards Technology

Teacher Focus Group Student Focus Groups

Can you describe a teacher that has a positive attitude toward the use of technology in the classroom

FOCUS GROUP (QUALITATIVE): Section 1: Attitudes Towards Technology

Teacher Theme: Decentralized technological usage

Teachers: "Google It," "Check your grades," & "Communications"

Students: "More Interesting" & "Drawn into it"

"Dig Deeper"

"I haven't really had a teacher that goes more on the technology side" **RESEARCH QUESTION 1 SUMMARY**Section 1: Attitudes Towards TechnologyResearch QuestionsResults

How does the agreement and
 How does the agreement and
 Share of teachers and students using
 Tetained
 Tetained
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 Tetained

1a. How does the agreement andNull hypothesisdisagreement of teachers and femaleretainedstudents using technology as part ofretainedclassroom instruction vary from each other?Null hypothesis1b. How does the agreement andNull hypothesisdisagreement of teachers and male studentsretainedusing technology as part of classroomretained

RESEARCH QUESTION 1 SUMMARY Section 1: Attitudes Towards Technology

1c. How does the agreement and disagreement of teachers Null hypothesis and Hispanic students using technology as part of classroom retained instruction vary from each other?

1d. How does the agreement and disagreement of teachers Null hypothesis and African-American students using technology as part of retained classroom instruction vary from each other?

1e. How does the agreement and disagreement of teachers and Caucasian students using technology as part of classroom instruction vary from each other?

1f. How does the agreement and disagreement of teachers and Native-American students using technology as part of classroom instruction vary from each other?

1g. How does the agreement and disagreement of teachers and Asian-American/Pacific Islander students using technology as part of classroom instruction vary from each other? retained

Null hypothesis

Null hypothesis

retained

Null hypothesis retained

RESEARCH QUESTION 1 SUMMARY Section 1: Attitudes Towards Technology

Research Questions

Results

1k. How do teachers who have taught 3-5 years rate Null hypothesis their attitude of using technology as part of classroom retained instruction compared to students?

11. How do teachers who have taught 6+ years rate Null hypothesis their attitude of using technology as part of classroom retained instruction compared to students?

RESEARCH QUESTION 2

Section 2: Instructional Enhancements

2. What are the differences between teachers and students in the value of the instructional enhancement of computer use during classroom instruction?



- H₀2. There is no statistically significant difference between how teachers and students value the instructional enhancement of computer use during classroom instruction.
- H2. There is a statistically significant difference between how teachers and students value the instructional enhancement of computer use during classroom instruction.

RESEARCH QUESTION 2:

Section 2: Instructional Enhancements

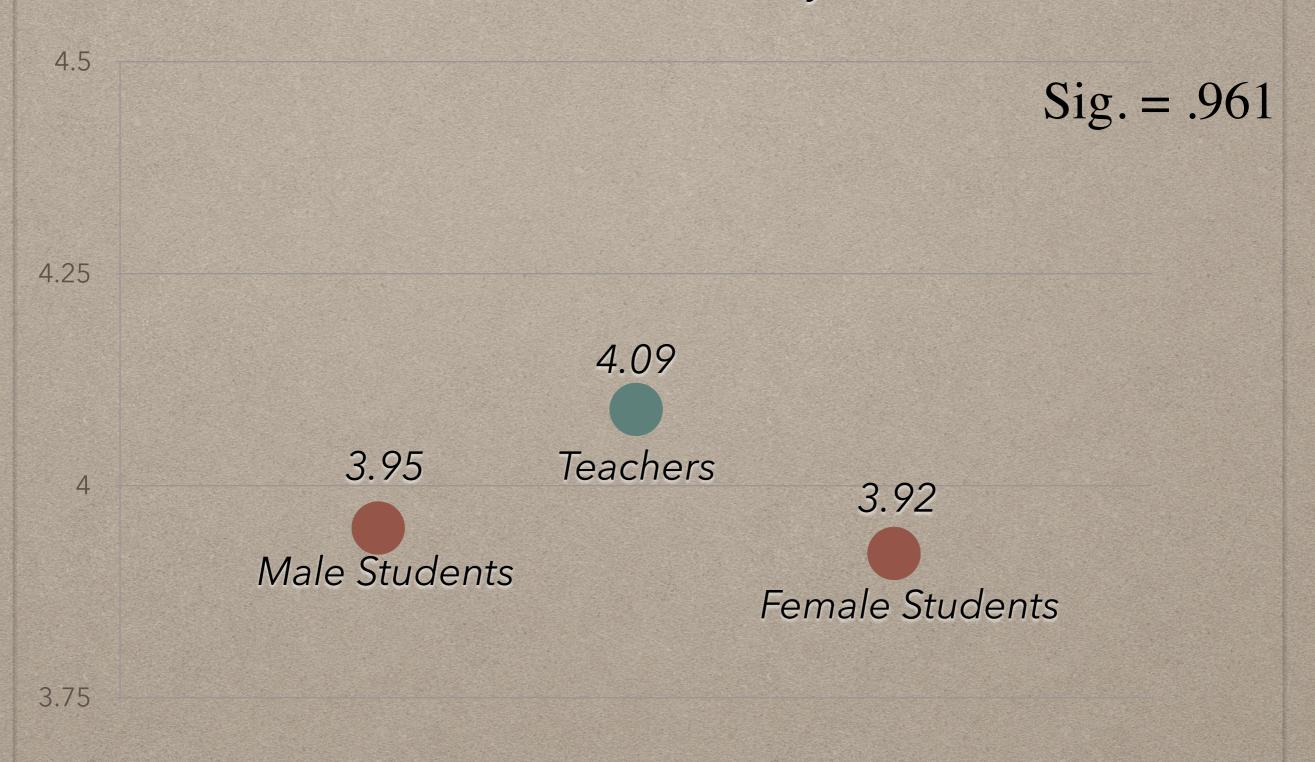
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A. Albirini / Computers & Education 47 (2006) 373-398

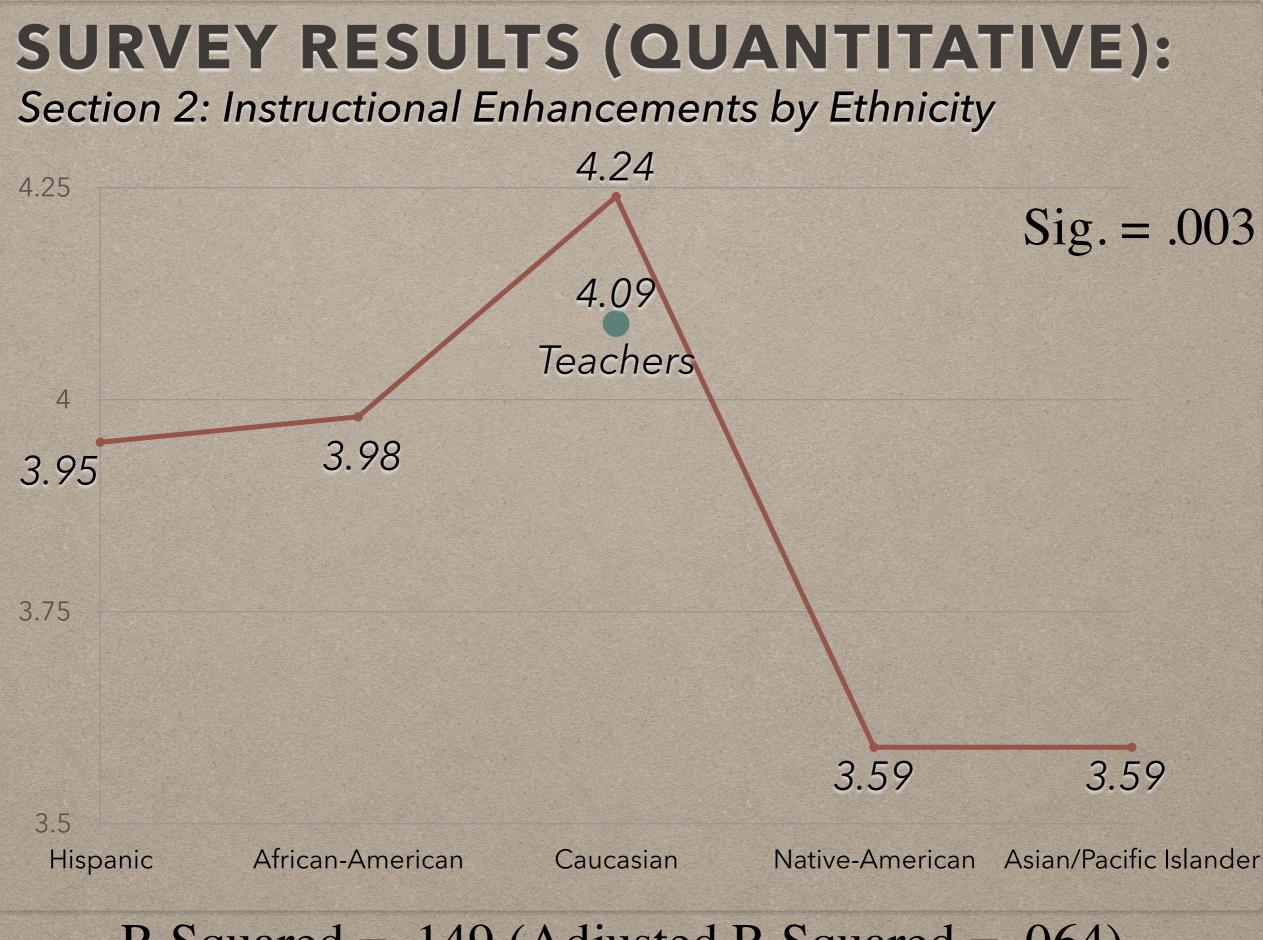
Section (2) Instructions: Please indicate your reaction to each of the following statements by circling the number that represents your level of agreement or disagreement with it. Make sure to respond to every statement

		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	Computers will improve education	1	2	3	4	5
2	Teaching with computers offers real advantages over traditional methods of instruction	1	2	3	4	5
3	Computer technology cannot improve the quality of students' learning	1	2	3	4	5
4	Using computer technology in the classroom would make the subject matter more interesting	1	2	3	4	5
5	Computers are not useful for language learning	1	2	3	4	5
6	Computers have no place in schools	1	2	3	4	5
7	Computer use fits well into my curriculum goals	1	2	3	4	5
8	Class time is too limited for computer use	1	2	3	3	5

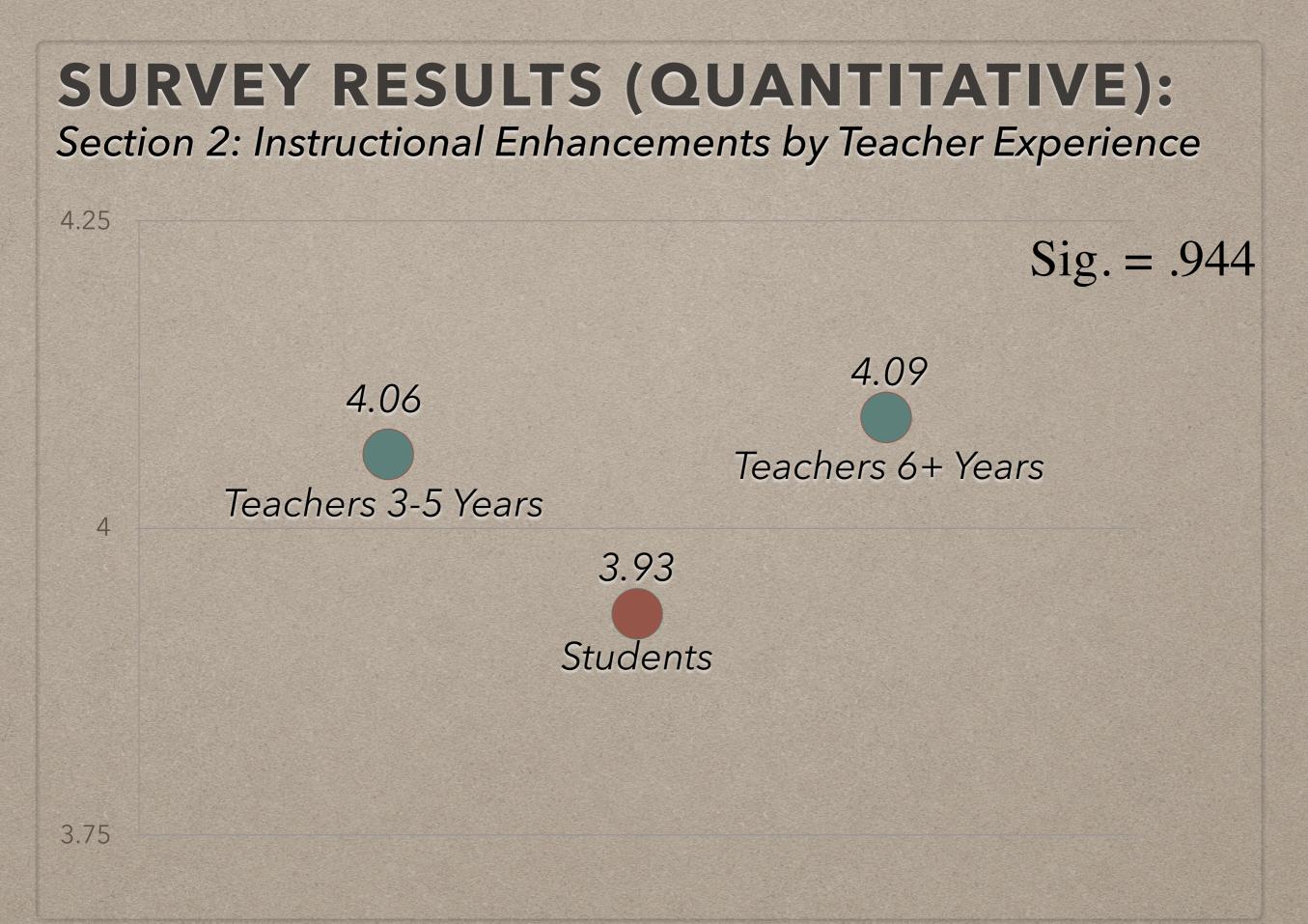
SURVEY RESULTS (QUANTITATIVE): Section 2: Instructional Enhancements by Gender



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FOCUS GROUP (QUALITATIVE):

Section 2: Instructional Enhancements

Teacher Focus Group

How have you used computers and other technology to make classroom instruction more interesting?

Student Focus Groups

How have you used computers and other technology in classroom instruction that made it more interesting?

FOCUS GROUP (QUALITATIVE): Section 2: Instructional Enhancements

Teacher Theme: Enhancing Instruction

"they find it interesting...but..."

"I don't know if I'm getting results"

Student Theme: Devices Used "Computers" "COWS" "my phone" J1: "More advanced"

RESEARCH QUESTION 2 SUMMARY Section 2: Instructional Enhancements

rejected

2. What are the differences between teachers Null hypothesis and students in the value of the instructional enhancement of computer use during classroom instruction?

Null hypothesis 2a. What are the differences between teachers and female students in the value of the retained instructional enhancement of computer use during classroom instruction?

2b. What are the differences between teachers Null hypothesis retained and male students in the value of the instructional enhancement of computer use during classroom instruction?

RESEARCH QUESTION 2 SUMMARY

Section 2: Instructional Enhancements

2c. What are the differences between teachers and HispanicNull hypothesisstudents in the value of the instructional enhancement ofrejectedcomputer use during classroom instruction?rejected

2d. What are the differences between teachers and African-American students in the value of the instructional enhancement of computer use during classroom instruction?

2e. What are the differences between teachers and Caucasian Null hypothesis students in the value of the instructional enhancement of rejected computer use during classroom instruction?

2f. What are the differences between teachers and Native-American students in the value of the instructional enhancement of computer use during classroom instruction?

2g. What are the differences between teachers and Asian-American/pacific Islander students in the value of the instructional enhancement of computer use during classroom instruction?

Null hypothesis rejected

Null hypothesis

rejected

Null hypothesis rejected

RESEARCH QUESTION 2 SUMMARY Section 2: Instructional Enhancements

2k. What value do teachers who have
taught 3-5 years place on the
instructional enhancement of computerNull
hypothesis
retaineduse during classroom instruction
compared to students?

21. What value do teachers who have Null
taught 6+ years place on the hypothesis
instructional enhancement of computer retained
use during classroom instruction
compared to students?

RESEARCH QUESTION 3: Section 3: Perceptions of the Impact of Education Technology Enhancements

3. What are the differences in how teachers and students rate the impact of education technology enhancements?



H₀3. There is no statistically significant difference between how teachers and students rate the impact of education technology enhancements.
H3. There is a statistically significant difference between how teachers and students rate the impact of education technology enhancements.

RESEARCH QUESTION 3: Section 3: Perceptions of the Impact of Education Technology

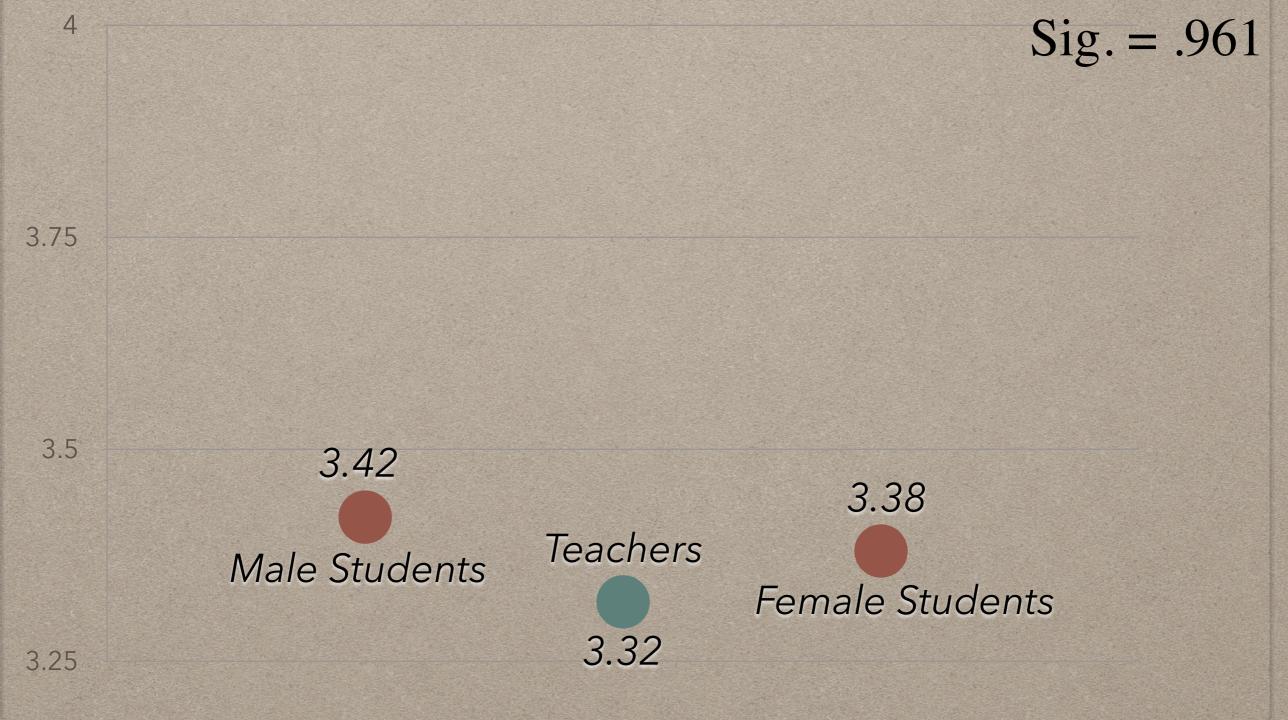
Enhancements



- Students need to know how to use computers for their future jobs
- 40. Students prefer learning from teachers to learning from computers
- Knowing about computers earns one the respect of others
- 42. Computers will improve our standard of living
- Computers are proliferating too fast
- People who are skilled in computers have privileges not available to others

- 45. There are other social issues that need to be addressed before implementing computers in education
- The increased proliferation of computers will make our lives easier
- 47. Computers dehumanize society
- Working with computers does not diminish people relationships with one other
- 49. Computers encourage unethical practices
- 50. Computers should be a priority in education

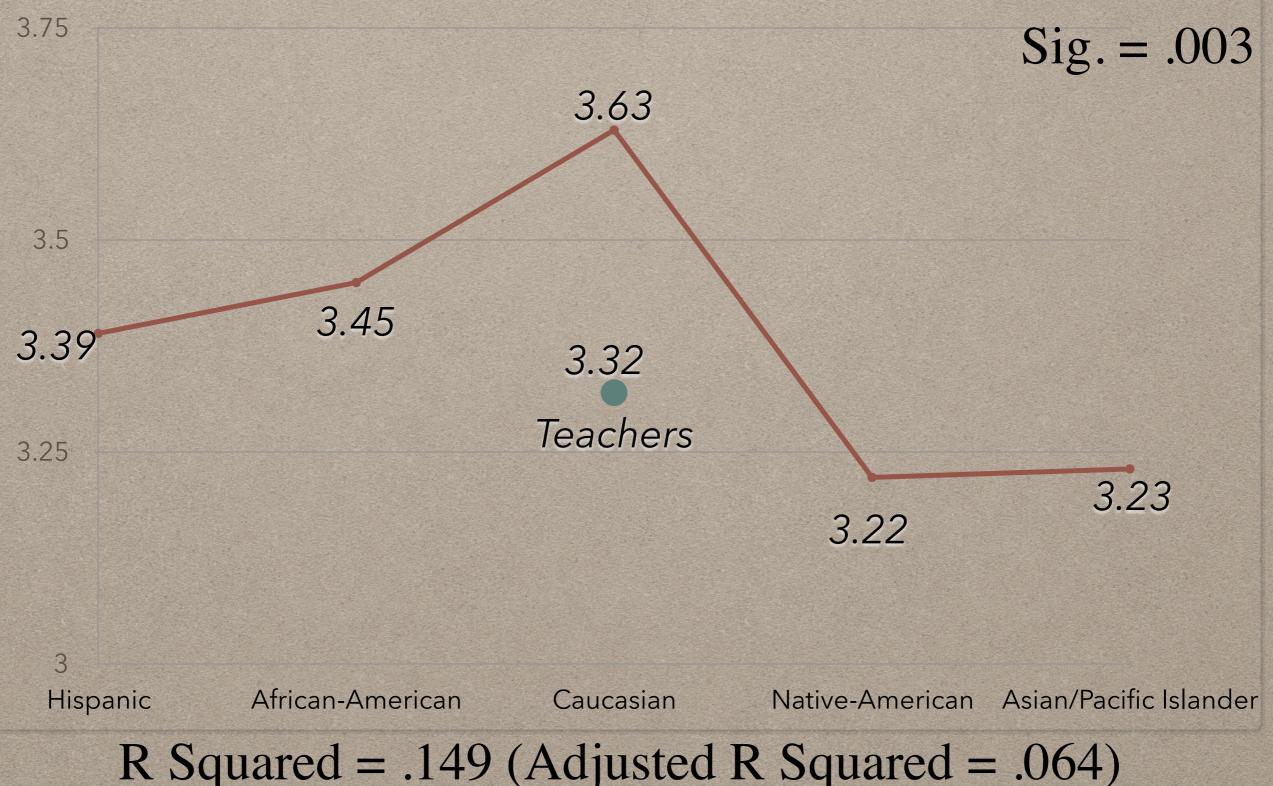
SURVEY RESULTS (QUANTITATIVE): Section 3: Perceptions of the Impact of Education Technology Enhancements

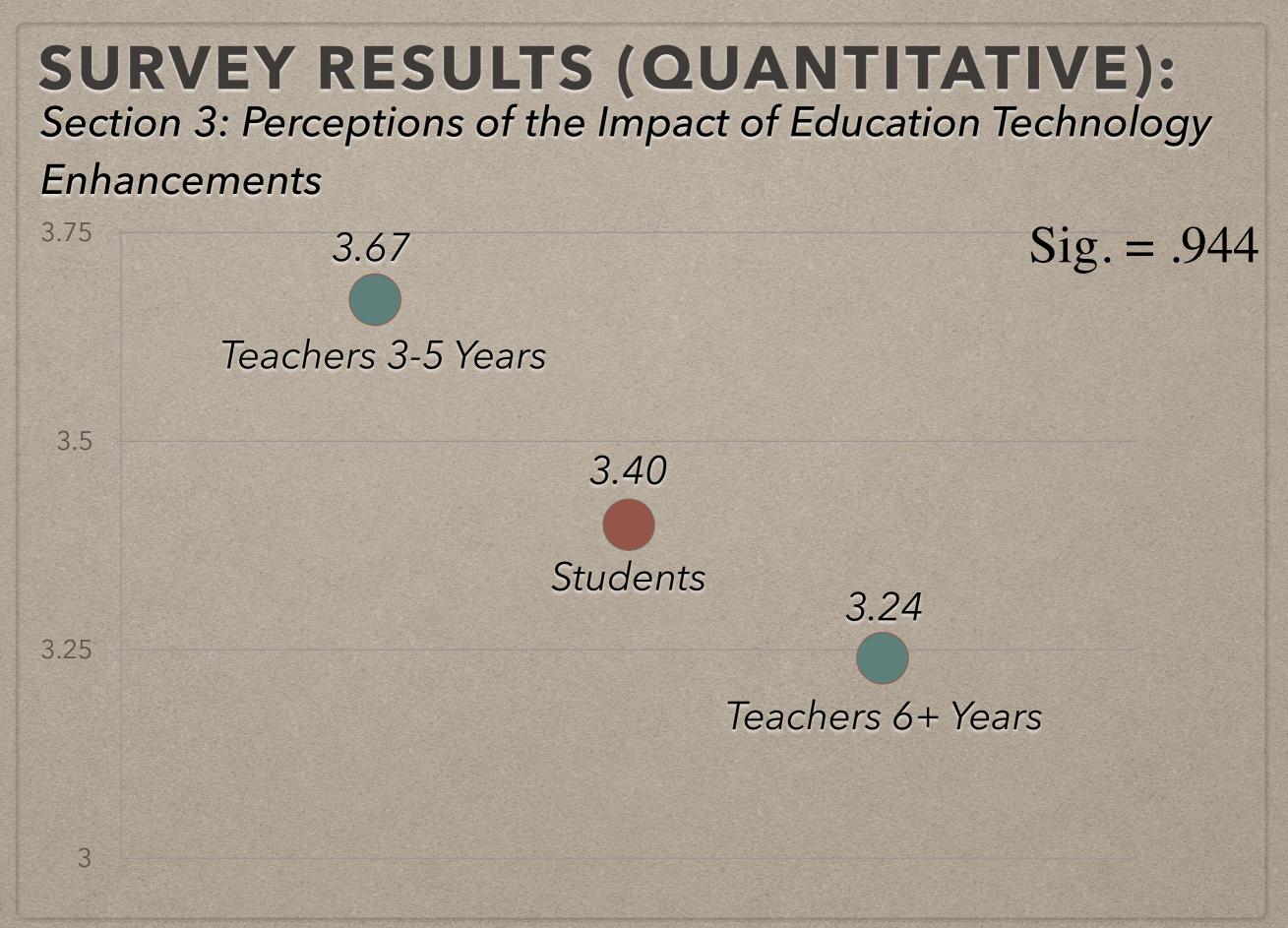


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SURVEY RESULTS (QUANTITATIVE): Section 3: Perceptions of the Impact of Education Technology

Enhancements





R Squared = .149 (Adjusted R Squared = .064)

RESEARCH QUESTION 3: Section 3: Perceptions of the Impact of Education Technology Enhancements

Section (3) Instructions: Please indicate your reaction to each of the following statements by circling the number that represents your level of agreement or disagreement with it. Make sure to respond to every statement

		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	Computers will not make any difference in our classrooms, schools, or lives	1	2	3	4	5
2	Students need to know how to use computers for their future jobs	1	2	3	4	5
3	Students prefer learning from teachers to learning from computers	1	2	3	4	5
4	Knowing about computers earns one the respect of others	1	2	3	4	5
6	· · · · · · · · · · · · · · · · · · ·	4	•	•		-

RESEARCH QUESTION 3: Section 3: Perceptions of the Impact of Education Technology Enhancements

Section (3) Instructions: Please indicate your reaction to each of the following statements by circling the number that represents your level of agreement or disagreement with it. Make sure to respond to every statement

		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
~	s will not make any differe ooms, schools, or lives	nce in 1	2	3	4	5
2 Students r	need to know how to use s for their future jobs	1	2	3	4	5
5						
7		Teachers				
Λ		4.64				4.50
.18	4 0 5	4.07			/	
l.1	4.05	4.07		4.00		
3.8						
Hispanic	African-American	Caucasian	Nativ	e-America	an Asi	ian/Pacific Isla

FOCUS GROUP (QUALITATIVE): Section 3: Perceptions of the Impact of Education Technology Enhancements

Teacher Focus Group

What kind of assignments have you assigned that required the use of technology, and the technology made the assignment more interesting?

Student Focus Groups

What kind of assignments have you been assigned that required the use of technology, and the technology made the assignment more interesting?

FOCUS GROUP (QUALITATIVE): Section 3: Perceptions of the Impact of Education Technology Enhancements

Teacher Theme: Visibility See class content Messaging = students are interested

Student Themes: Interest & Fun Kahoot & Quizlet Jeopardy & "Gamify" "more fun to do" "dig deeper" "more meaningful" **RESEARCH QUESTION 3 SUMMARY** Section 3: Perceptions of the Impact of Education Technology Enhancements

3. What are the differences in how teachers and students rate the impact of education technology enhancements?

3a. What are the differences in how teachers and female students rate the impact of education technology enhancements?

3b. What are the differences in how teachers and male students rate the impact of education technology enhancements?

Null hypothesis retained

Null hypothesis retained

Null hypothesis retained

RESEARCH QUESTION 3 SUMMARY Section 3: Perceptions of the Impact of Education Technology Enhancements Null hypothesis 3c. What are the differences in how teachers and male Hispanic students rate the impact of rejected education technology enhancements? 3d. What are the differences in how teachers and Null hypothesis male African-American students rate the impact of rejected education technology enhancements? 3e. What are the differences in how teachers and Null hypothesis rejected male Caucasian students rate the impact of education technology enhancements? 3f. What are the differences in how teachers and Null hypothesis male Native-American students rate the impact of rejected education technology enhancements? 3g. What are the differences in how teachers and Null hypothesis Asian-American/Pacific Islander students rate the rejected impact of education technology enhancements?

RESEARCH QUESTION 3 SUMMARY Section 3: Perceptions of the Impact of Education Technology Enhancements

3k. How do teachers who have taught 3-5 years Null hypothesis rate the impact of education technology retained enhancements compared to students?

31. How do teachers who have taught 6+ years rate the impact of education technology enhancements compared to students?

Null hypothesis retained

RESEARCH QUESTION 4:

Section 4: Technology Literacy

4. What are the differences between how teachers and students rate their technology literacy?



H₀4. There is no statistically significant difference between how teachers and students rate their technology literacy.
H4. There is a statistically significant difference between how teachers and students rate their technology literacy.

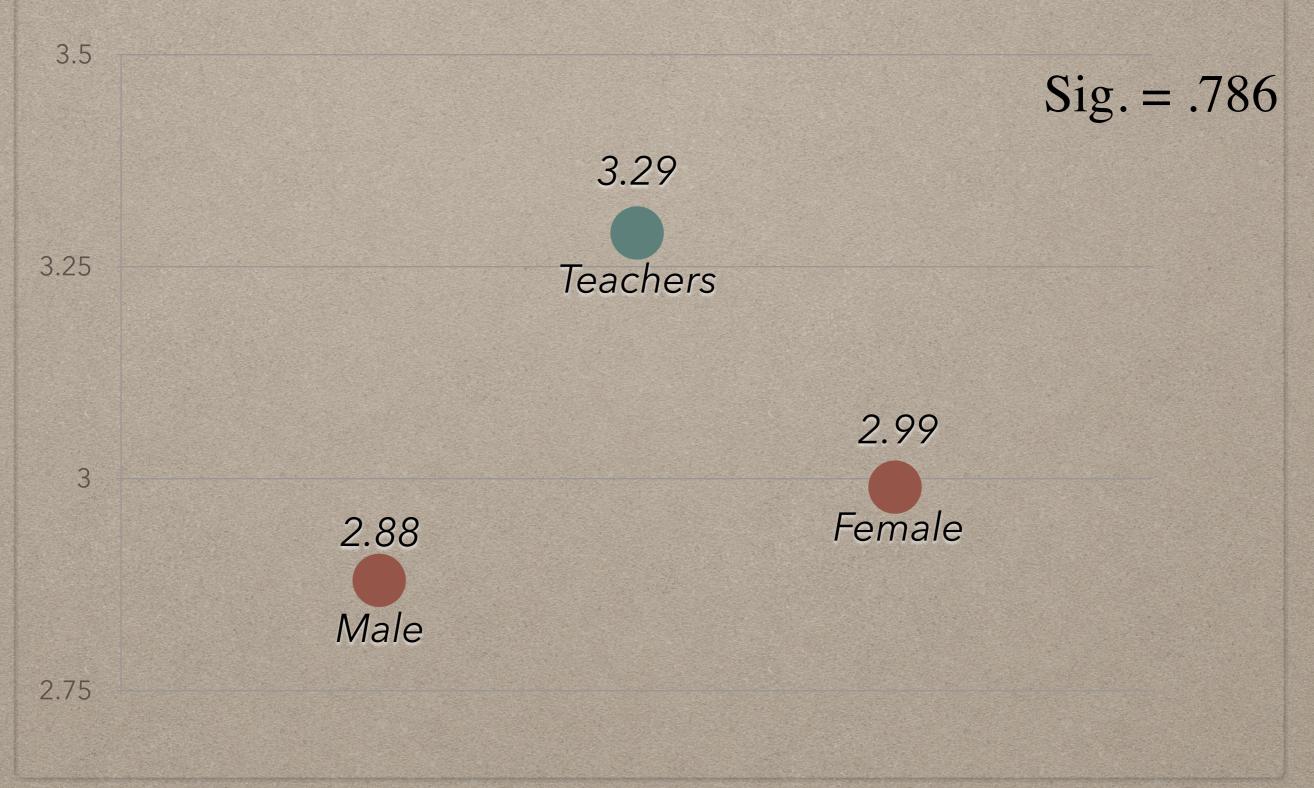
RESEARCH QUESTIONS

Section 4: Technology Literacy

Section (4) Instructions: Please indicate your current computer competence level (i.e., both your knowledge of and your skill in using computers) regarding each of the following statements. Make sure to respond to every statement

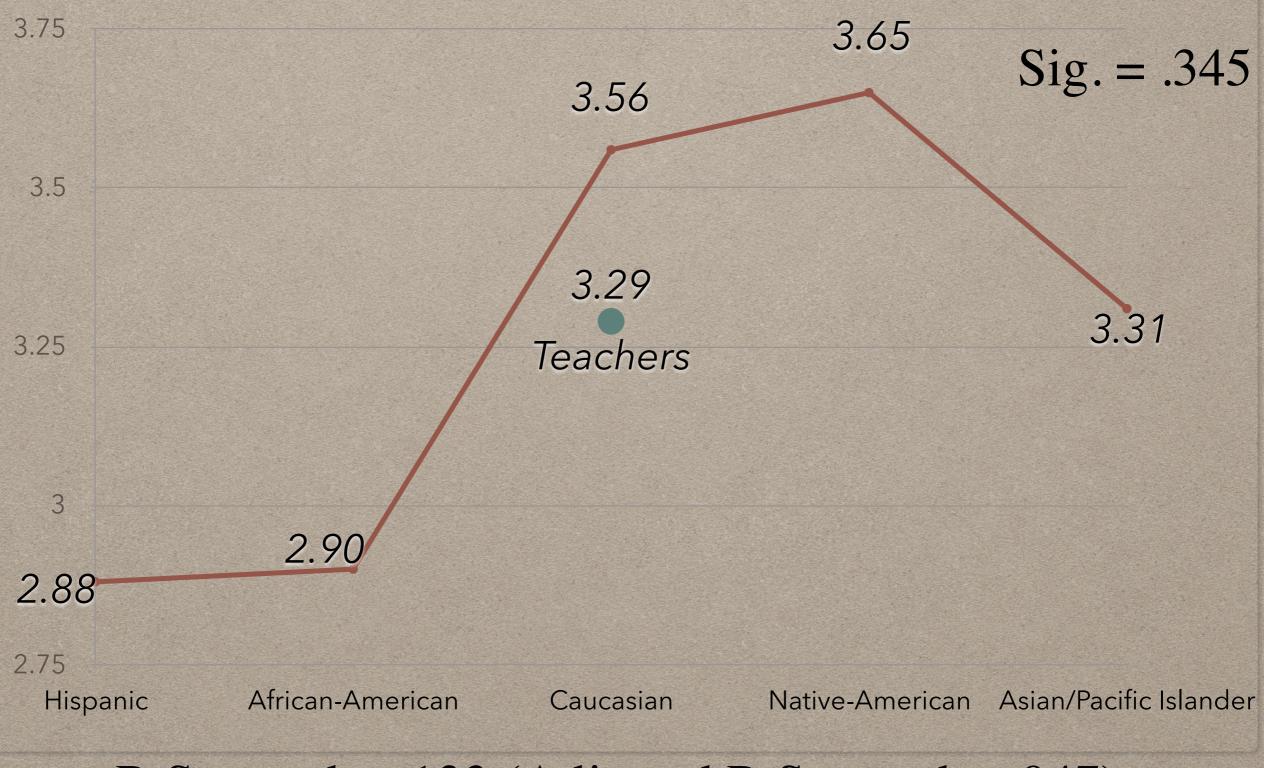
		No competence	Little competence	Moderate competence	Much competence
1	Install new software on a computer	1	2	3	4
2	Use a printer	1	2	3	4
3	Use a computer keyboard	1	2	3	4
4	Operate a word processing program (e.g., Word)	1	2	3	4
5	Operate a presentation program (e.g., PowerPoint)	1	2	3	4
6	Operate a spreadsheet program (e.g., Excel)				
7	Operate a database program (e.g., Access)	1	2	3	4
8	Use the Internet for communication (e.g., email & chatroom)	1	2	3	4
9	Use the World Wide Web to access different types of information	1	2	3	4

SURVEY RESULTS (QUANTITATIVE): Section 4: Technology Literacy by Gender



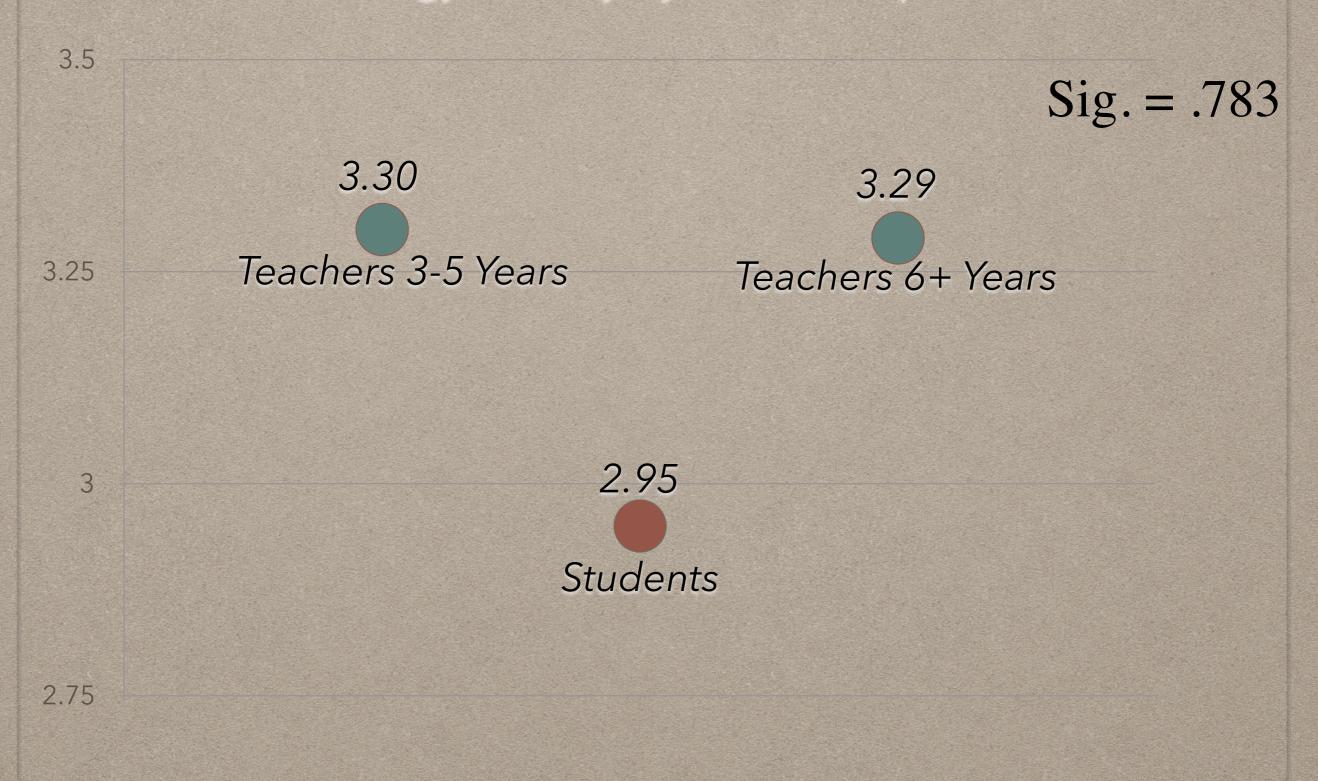
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SURVEY RESULTS (QUANTITATIVE): Section 4: Technology Literacy by Demographic



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SURVEY RESULTS (QUANTITATIVE): Section 4: Technology Literacy by Teacher Experience



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FOCUS GROUP (QUALITATIVE): Section 4: Technology Literacy

Teacher Focus Group Student Focus Groups

How would you define education technology?

FOCUS GROUP (QUALITATIVE): Section 4: Technology Literacy

Themes: Hardware & Software

SMARTBoards

Canvas

Projectors

Kahoot

Computers

Quizlet

RESEARCH QUESTION 4 SUMMARY Section 4: Technology Literacy

4. What are the differences between how teachers and students rate their technology literacy?

Null hypothesis retained

4a. What are the differences between how teachers and female students rate their technology literacy?

Null hypothesis retained

4b. What are the differences between how Null hypothesis teachers and male students rate their technology retained literacy?

RESEARCH QUESTION 4 SUMMARY Section 4: Technology Literacy 4c. What are the differences between how teachers Null hypothesis and Hispanic students rate their technology rejected literacy? 4d. What are the differences between how teachers Null hypothesis rejected and African-American students rate their technology literacy? 4e. What are the differences between how teachers Null hypothesis and Caucasian students rate their technology retained literacy? 4f. What are the differences between how teachers Null hypothesis rejected and Native-American students rate their technology literacy? 4g. What are the differences between how teachers Null hypothesis and Asian-American/Pacific Islander students rate retained their technology literacy?

RESEARCH QUESTION 4 SUMMARY Section 4: Technology Literacy

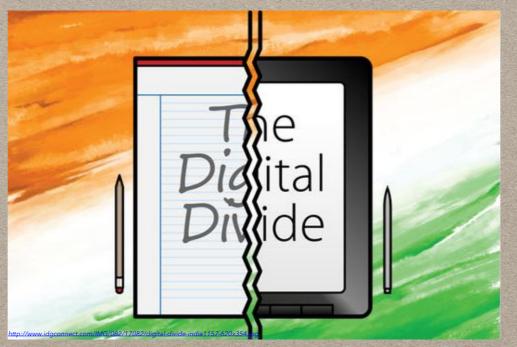
4k. How do teachers who have taught 3-5Null hypothesisyears rate their technology literacy comparedretainedto students?

41. How do teachers who have taught 6+ years Null hypothesis rate their technology literacy compared to retained students?

RESEARCH QUESTIONS

Section 5: Access to Technology

5. What are the differences between teachers and students regarding how much access to technology they have?



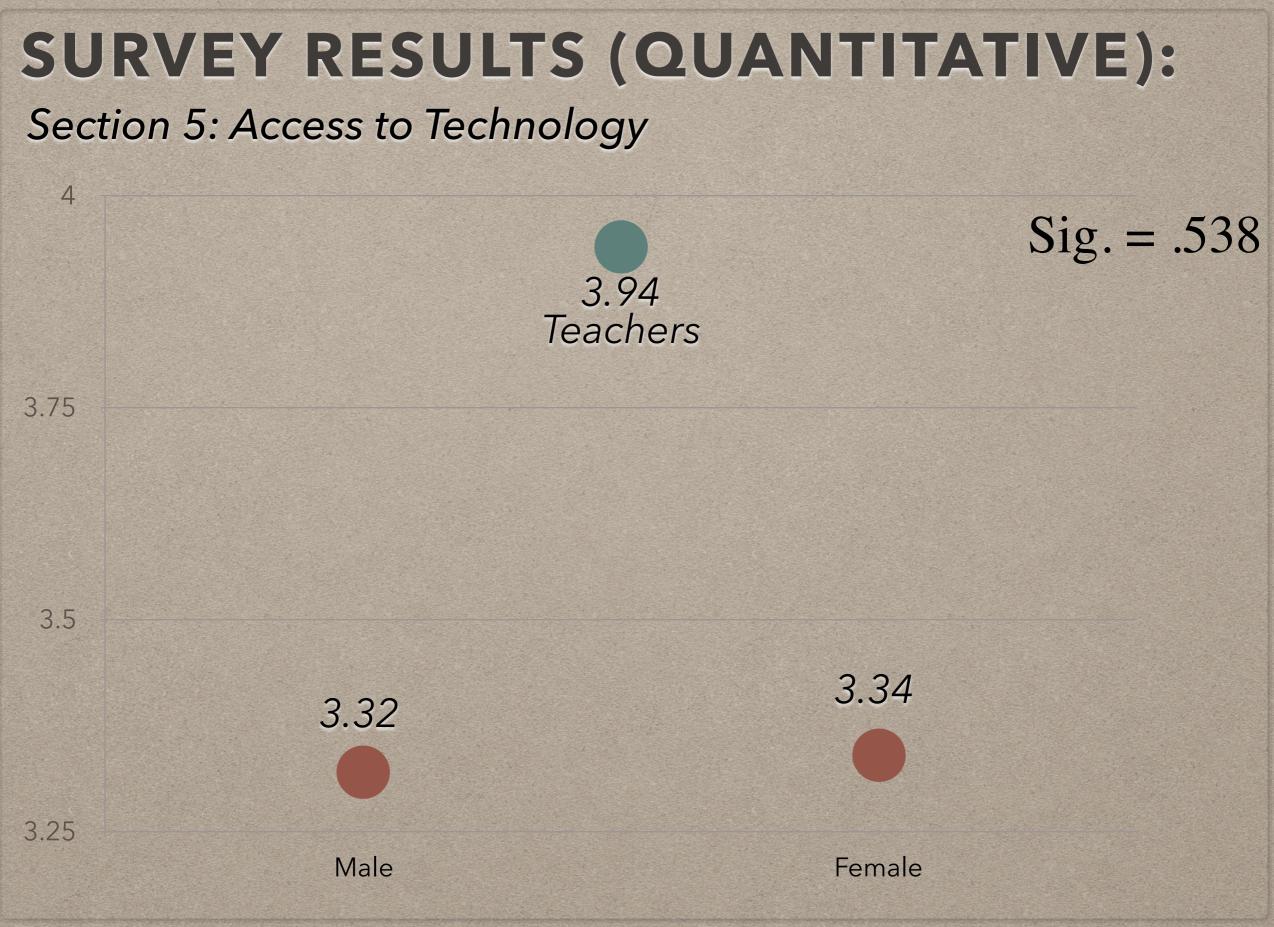
H₀5. There is no statistically significant difference between teachers and students regarding how much access to technology they have.
H5. There is a statistically significant difference between teachers and students regarding how much access to technology they have.

RESEARCH QUESTION 5 Section 5: Access to Technology

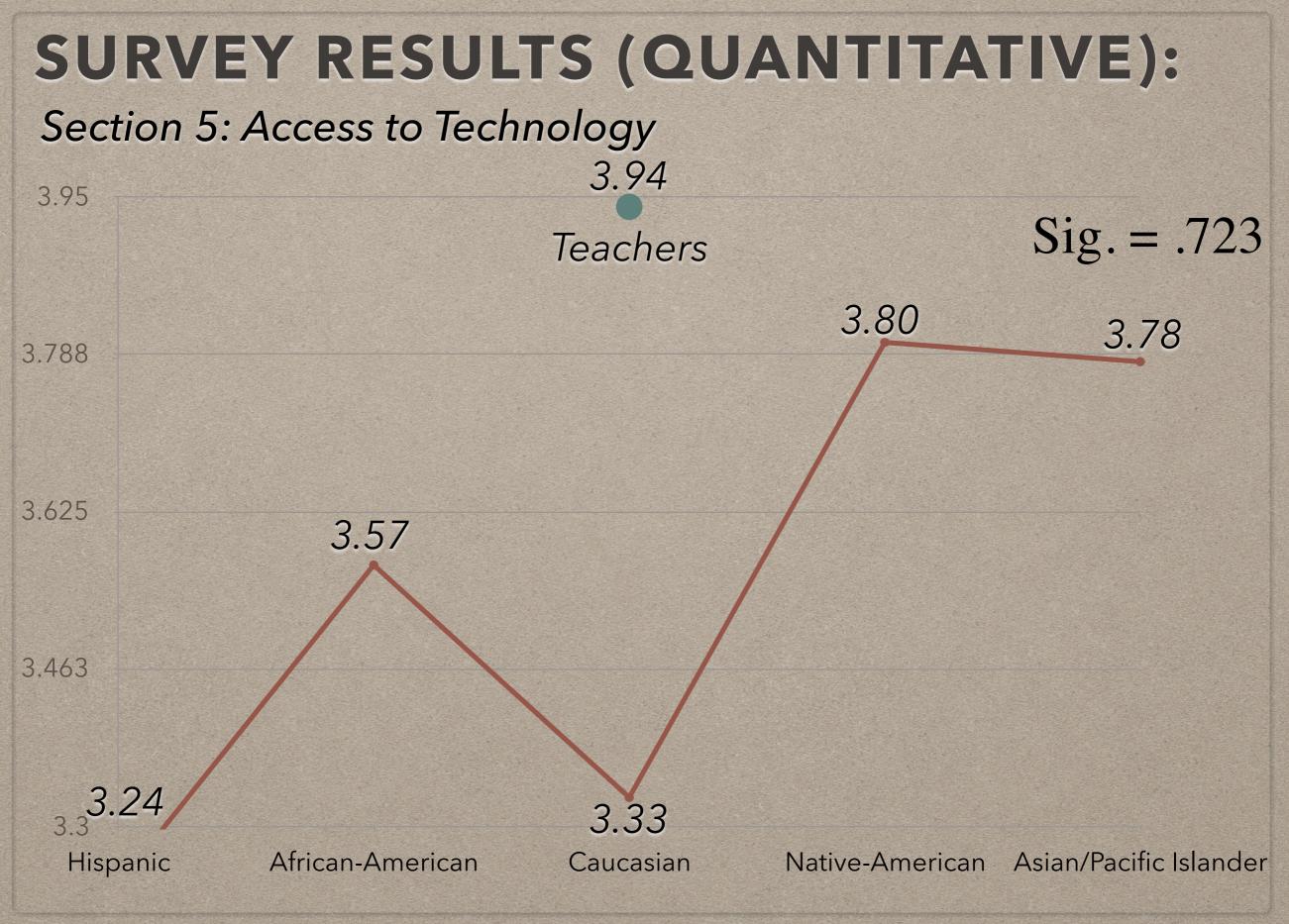
Section (5) Instructions: Please identify how often you have access to computer technology including the internet in the following contexts:

		Daily	2 or 3 times a week	Once a week	Once a month	Never
1	In your home	1	2	3	4	5
2	At school (computer lab or library)	1	2	3	4	5
3	Other (like Internet cafes, etc.)	1	2	3	4	5



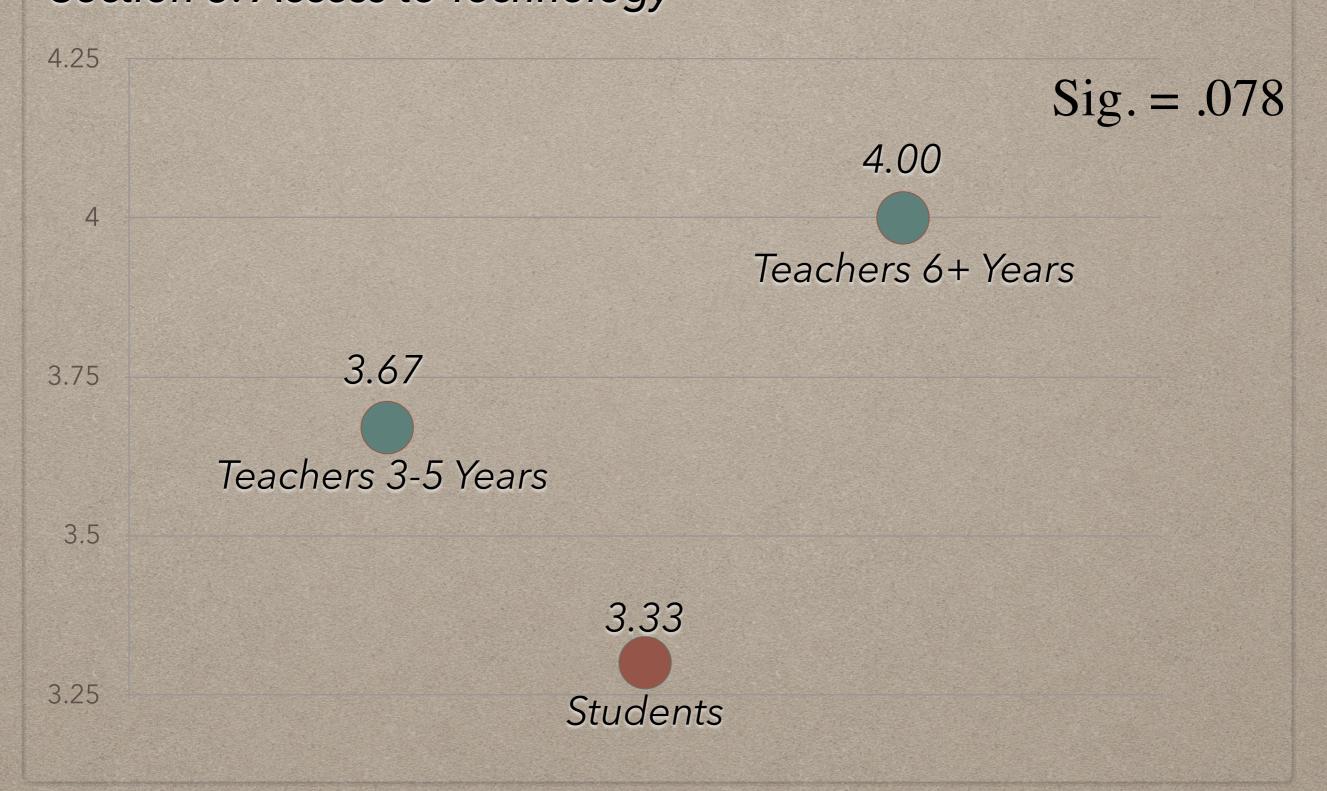


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R Squared = .094 (Adjusted R Squared = .004)

SURVEY RESULTS (QUANTITATIVE): Section 5: Access to Technology



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FOCUS GROUP (QUALITATIVE): Section 5: Access to Technology

Teacher Focus Group

Are you provided with the technological tools needed to make classes engaging for students?

Student Focus Groups

Are your teachers provided with the technological tools needed to make classes engaging for you?

FOCUS GROUP (QUALITATIVE): Section 5: Access to Technology

Theme: Lack of Access

J1: "I don't know how many kids there are here but a lot of times you have to wait every few weeks before you can go into the lab because other classes are using it for days at a time."

T2 said, "Yeah. If we're serious about getting our kids ready for this 'twenty-first century workforce', it's technologically based, it's not the industrial age anymore," and that, "I think it's improving, but I think the reality is, in a school like ours, we would have to have a 1:1 ratio with technology, and we don't. We barely have probably a 5:1 ratio, at best."

RESEARCH QUESTION 5 SUMMARY Section 5: Access to Technology

5. What are the differences between teachers and students regarding how much access to technology they have?

5a. What are the differences between teachers and female students regarding how much access to technology they have? Null hypothesis rejected

Null hypothesis rejected

5b. What are the differences between teachers and male students regarding how much access to technology they have?

Null hypothesis rejected

RESEARCH QUESTION 5 SUMMARY Section 5: Access to Technology

5c. What are the differences between teachers and Hispanic students regarding how much access to technology they have?

Null hypothesis retained

5d. What are the differences between teachers and
African-American students regarding how much accessNull hypothesis
retainedto technology they have?

5e. What are the differences between teachers and Caucasian students regarding how much access to technology they have?

Null hypothesis retained

5f. What are the differences between teachers and Null hypothesis Native-American students regarding how much access to retained technology they have?

5g. What are the differences between teachers and Null hypothesis Asian-American/Pacific Islander students regarding how retained much access to technology they have?

RESEARCH QUESTION 5 SUMMARY Section 5: Access to Technology

5k. How much access toNulltechnology do teachers who havehypothesistaught 3-5 years have compared torejectedstudents?

51. How much access to technology Nulldo teachers who have taught 6+years have compared to students?rejected

CHAPTER 5: Summary, Conclusions, Recommendations, & Implications



CHAPTER 5: RQ1 TECHNOLOGY ATTITUDES Summary & Conclusions

No Statistically Significant Difference

Small Positive Correlation Demographically Caucasian Students Teachers 3-5 Years African-American Students Teachers 6+ Years Male Students Female Students Hispanic Students Asian-American/Pacific Islander Students Native-American Students

CHAPTER 5: RQ1 TECHNOLOGY ATTITUDES Summary & Conclusions

No Statistically Significant Difference When Aggregated

Small Positive Correlation Demographically

Positive Attitudes Exist For Technology

Caucasian Students = Most Positive (4.19)

Native-American Students = Least Positive (3.86)

CHAPTER 5: RQ1 TECHNOLOGY ATTITUDES Summary & Conclusions

No Statistically Significant Difference When Aggregated

Small Positive Correlation Demographically

Positive Attitudes Exist For Technology

Gender, Ethnicity, Years of Teaching Experience

CHAPTER 5: RQ2 Summary & Conclusions

Computer/Education Technology Leads to Added Engagement for students, and organization for teachers.

Ritzhaupt, SES, and affinity for technology



CHAPTER 5: RQ3 PERCEPTION OF IMPACTS OF ENHANCEMENTS WITH EDUCATION TECHNOLOGY Summary & Conclusions

Positive Correlation Demographically

Yager, STEM, and 21st century skills such as adaptability

Gender, Ethnicity, Years of Teaching Experience

CHAPTER 5: RQ4 COMPUTER LITERACY Summary & Conclusions

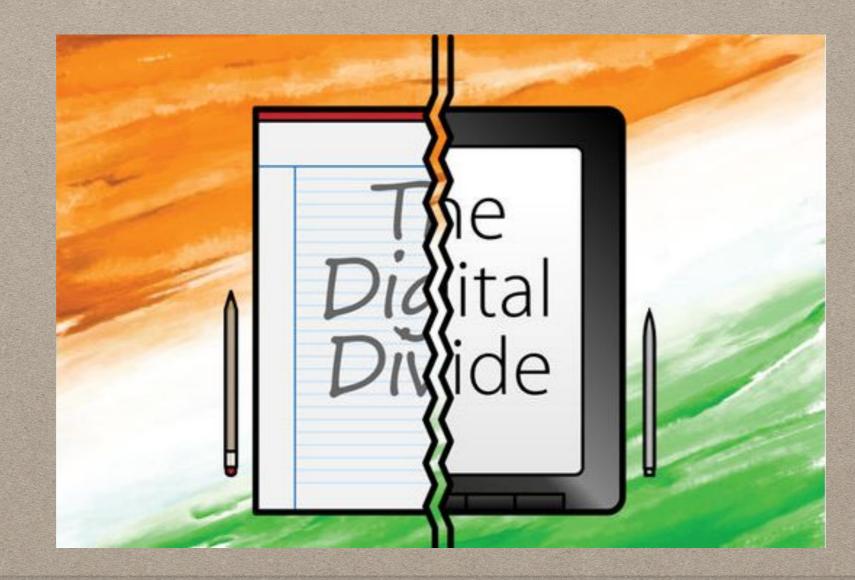
Strong Positive Correlation Demographically



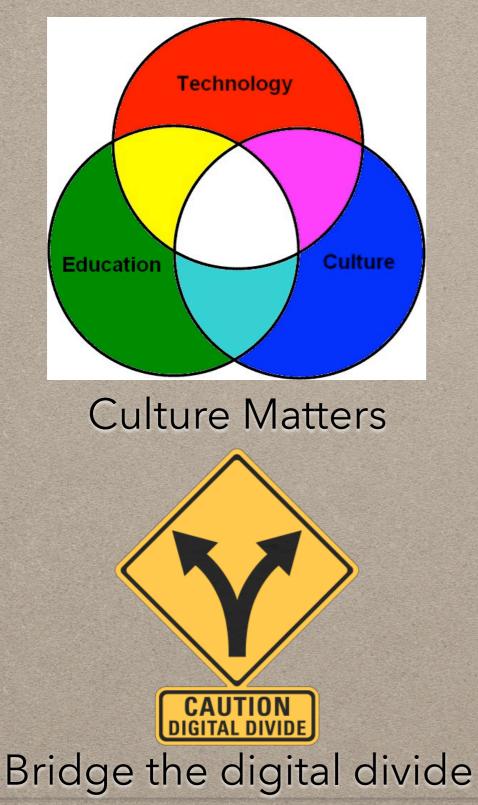
Gender, Ethnicity, Years of Teaching Experience

CHAPTER 5: RQ5 ACCESS TO TECHNOLOGY Summary & Conclusions

Strong Positive Correlation By Gender Gender, Ethnicity, Years of Teaching Experience



CHAPTER 5: Recommendations For Practice





Investment in Tech & Training



Infrastructure Required

CHAPTER 5: Recommendations For Future Studies 1.F/RL Study



2. More Teachers Needed For Response



CHAPTER 5:

Implications

Tech Vision: Inclusive of Stakeholders

Digital Divide: Act with agency

Meaningfully engage students and communities

? Questions/Comments ?

EXAMINING STUDENT AND TEACHER ATTITUDES OF EDUCATION TECHNOLOGY AND PERCEPTIONS OF EACH OTHER



A DISSERTATION BY: JASON THOMPSON