

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Angela G. Du	
	34272
Project Title	
The Effects of Digital Based Learning and Traditional	<b>Based Learning</b>
on Reading Interpretation	
Objectives/Goals Abstract	
This experiment is designed to investigate the effects of a digitally based learni	ng environment and a
traditional based learning environment on reading interpretation using an ACT	Prose Fiction reading test.
Methods/Materials The traditional $(n=15)$ and digital $(n=0)$ groups consisted of 24 pm (minorthy)	Samagian native English
The traditional $(n=15)$ and digital $(n=9)$ groups consisted of 24 predominantly speaking, high school students between the ages of 16-18, currently earolled in psychology class. Students attend either a digital or traditional school and both	a college preparatory
psychology class. Students attend either a digital or traditional school and both	are from a rural mountain
area in Central California. Participants were obtained as part/oka purposive san	nple because of certain
characteristics that were required between the control and experimental group r test, a traditional (paper) version was administered to the students in a tradition	ally based learning
environment. In the second test, an online version was presented to the students	s enrolled in a digitally
based learning environment. The independent variable was the digital or traditi	onal learning environment,
and the dependent variable was the score received on the reading texts. <b>Results</b>	
A one tailed t-test demonstrated that there was a significant difference at the p- traditional based learning has a positive impact on ACT# Prose Fiction reading	< 0.005 level, which shows
traditional based learning has a positive impact on ACT# Prose Fiction reading	g test scores.
Conclusions/Discussion In conclusion, the data collected resulted in supporting the research hypothesis.	Therefore an individual
studying at a traditional based learning school is more likely to score higher on	a reading interpretation
test than an individual studying at a digital based harning school.	
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Summary Statement	
This experiment is designed to investigate the effects of a digitally based learni	ng environment and a
traditional based learning environment on reading interpretation using an ACT	# Prose Fiction reading test.
Help Received	
Received help in learning how to use/operate Photoshop for the production of t	he poster board, and IB
instructor help	