CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY

Name(s)

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Project Number

33144

Project Title

The Effect of Twitter Use in an Educational Setting on Introverted and Extroverted Students Engagement in Class Discussi

Abstract

Objectives/Goals

This experiment is an investigation into the effect of Twitter# use in an educational setting on introverted and extroverted student#s engagement in class discussion, as measured by the number of comments added by each participant.

Methods/Materials

The participants were an opportunity sample of 21 student#s of both genders between the ages of 16 # 18, and were predominantly Caucasian, English-speaking students from a rural high school in the Western United States. Each participant was given an introversion-extroversion personality test to determine their temperament (9 introverted, 12 extroverted). A between-subject design was used; both samples watched a video lecture, while one verbally commented, and the other sample used Twitter to comment on the lecture. The independent variable was the use of Twitter to respond to lecture, and dependent variable was the number of comments received from the participants. The research hypothesis states that when students use Twitter# to electronically comment on a lecture they will add a significantly higher number of comments (tweets) than student#s who verbally comment on a lecture, such as in a traditional classroom setting.

Materials:

Consent Forms
Computer Lab/Projector/Screen
Twitter Accounts
Introvert/Extrovert Personality Test
Lecture Video/Modified YouTube video
Questionnaire of Video Thoughts after lesson

Results

A one-tailed t-test was used to analyze and interpret the data, which was found to be significant with a 99.9% level of confidence; confirming the research hypothesis.

Conclusions/Discussion

The implication of using Twitter in an educational setting is that it will significantly increase classroom discussion, and give all students# an equal chance to contribute.

Summary Statement

How using Twitter in an educational setting can increase overall classroom discussion for all students.

Help Received

Under the supervision of my teacher

Preliminary