



## Facebook: An Online Environment for Learning Science in Class 9<sup>th</sup>

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### Abstract:

*Presently Facebook site is one of the most popular sites among the students. In this study researcher introduced the Facebook site with traditional teaching in education. Researcher consider Facebook site as a useful learning environment which enhance the interest of the 9<sup>th</sup> class students. Objective of the study is to develop learning material using Facebook pages for teaching science to students of class IX CBSE and study its effectiveness in terms of achievement of students. In the investigation it was found that the 9<sup>th</sup> class students of C.B.S.E Board performed well in science subject after learning through Facebook site as an additional learning tool with traditional teaching. To facilitate the learning of science among the students, the Facebook can be utilized as an online environment. Researcher presents here the result of 100 users of Facebook who are studying in 9<sup>th</sup> standard of C.B.S.E Board. The result shows, that 9<sup>th</sup> class Students, who are active users of Facebook, have performed well in science subject. Furthermore, through Facebook's as an additional learning tool can be accessed from anywhere and students can learn anytime. Teachers have to utilize Facebook as a tool with conventional teaching method to obtained maximum potential of students.*

**Keywords:** *Achievement, Education, Facebook, Social Networks*

### 1. Introduction

Today the number of social networking sites is there for different purposes, and each try provide maximum features for the users. Now a days social networking sites are also integrated with educational projects, where users can communicate with each other but also share educational videos, pictures and many more things. Mostly students use social networking sites such as Facebook, Myspace, Youtube, Weblogs, Xanga and Friendster to present themselves to others, to communicate with old friends and best way to make new friends. There are many reasons which make Facebook site so popular

Facebook is most influential site. It was originated by the students of Harvard University in 2004. Facebook was founded by Mark Zuckerberg with his college roommates and fellow Harvard University students Eduardo Saverin, Andrew McCollum, Dustin Moskovitz and Chris Hughes. Started originally in February of 2004. First it was launched in the name of theFacebook.com subsequently changed into Facebook.com. Previously it was limited to only for the students of the university but later on it was opened for other universities and colleges and slowly it grew into dominant global site. Now Facebook has become the first choice of school students where they can access the content, educational videos or other educational material wherever and whenever they want

This shows that combination of traditional and Facebook based learning help the students to engage them actively in a unique manner. It also enhances the interaction between both teacher- student and student-student. Facebook site presents a huge opportunity for schools, universities and other educational organisations to reach out and connect with teachers, students and prospective students In addition; they are used to post assignments, tests, quizzes, links, and extra resources on the Facebook

page. Through Facebook site, a teacher may take the students' opinion or feedback about certain course content, and can also send and receive messages to an individual or a group of students.

## 2. Research Methodology

### 2.1 Design of the Study

The present study is experimental in nature and single group design, where Pre-test and Post-test of the group is taken. The group of 100 students has been taught through Facebook with traditional teaching. Facebook page is developed for teaching all topics of science subject for 9<sup>th</sup> standard C.B.S.E board. The teacher has provided study material, video or pictures in Facebook page, where students can share any information or interact with the friends and instructor to remove any confusion or doubts. Teacher has made a closed group where anyone can ask to join the group.

### 2.2 Population and Sampling

#### 2.2.1 Population

The population was selected from all secondary CBSE schools of Nagpur city.

#### 2.2.2 Sampling

The test was conducted on 100 students who were studying in class 9<sup>th</sup>, CBSE board at Nagpur and medium was English only.

### 2.3 Tools of the Study

1. The self-developed criterion reference test for measuring achievement of the students for Pre and Post-test has been used.
2. Prepared Facebook page along with teaching content.

### 2.4 Statistical Technique

The calculated value of mean of Pre test is 5.56 & Post test is 10.49. The calculated value of standard deviation of Pre test is 1.225 & Post test is 2.247.

### 2.5 Analysis and Interpretation

In order to achieve the objective, researcher compared mean & standard deviation of the pre test and post test of the group. The calculated value of mean of Pre test is 5.56 & Post test is 10.49. The calculated value of standard deviation of Pre test is 1.225 & Post test is 2.247.

**Table 4.1**

Group	Test	Number of students	Mean	Standard deviation	T value
Experimental	Pretest	100	5.56	1.225	4.47
	Posttest	100	10.49	2.247	

There is a significance difference between the Pre test score & Post test score of the experimental group. 't' test is applied to test the significance between mean achievement score of Pre test & Post test of the experimental group.

## 3. Interpretation

The calculated value of 't' score is 4.47 which is significant at both the levels. Table no 4.1 indicates that the calculate value is bigger than the T table value and thus 't' value is significant at .01 & .05 so the students of the experimental group achieved more score at Post test hence it proves the effectiveness of Facebook .

## Conclusion

Researcher believes that the Facebook social networking site is beneficial for both the instructor and students. Researcher can make various combinations for the improvement of teaching learning process by using number of learning styles with the traditional lecture format. Facebook can be utilized to

increase teacher-student and student-student interaction. Instructors can expand their pedagogical portfolio by proper efforts. They also support active learning through Facebook site.

Furthermore, Facebook is also creating opportunities for teachers to present the educational material in innovative and interesting way not only for their present classroom but also in their future classrooms. Facebook can be used in education as a tool for providing better learning environment. Almost all students are having account in the Facebook social networking site and visit it very often so each and every information can be collected in very short period.

In traditional classrooms it is most of the time is one way communication to overcome this problem Facebook site use in education as a tool...On the contrary it is students centered. As related materials are saved on Facebook page, students can access the information and answer to the previous questions. No one can prevent them from re-asking questions. In this respect, Facebook brings many educational advantages.

The study examined educational effectiveness of class 9<sup>th</sup> students about Facebook. It was shown that the combination of traditional teaching and Facebook site shown drastically positive result. All the students participated actively and enthusiastically during the study. Facebook has proved the effectiveness in the education. The teaching methods of education need to be updated according the time and situation. Now a days Facebook can be used for educational purpose not only for students but also for teachers.

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