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**Submission date:** 03-Nov-2022 08:15PM (UTC+0700)

**Submission ID:** 1943384245

**File name:** ABIDIN\_BLENDED\_PAPER.pdf (315.2K)

**Word count:** 3324

**Character count:** 18862

# Applying Blended Learning as an Effective Model for EFL Learners' Reading Comprehension

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## ABSTRACT

As an alternative solution to resolve various reading comprehension problems in the EFL context, it is necessary to implement a blended learning model which combines both online and face to face teaching modes. This study seeks to investigate the effectiveness of the blended learning model on students' reading comprehension in terms of the literal and interpretative level of comprehension. The research design was a quasi-experimental study using a sample of 60 students in the eleventh grade at SMAN 22 Makassar. Before the experiment was performed pre-test and post test were conducted to measure students' reading comprehension. The findings indicated that students taught using a blended learning model, in the form of a face-to-face driver model supported by the Schoology platform, and had significantly made a greater improvement on reading performance. The findings contribute to pedagogical implications where teachers need to be made aware of such a model especially during the pandemic era of Covid-19.

**Keywords:** Blended Learning, Reading Comprehension, English Language Teaching

## 1 INTRODUCTION

The development of technologies and information has led to the emergence of various learning innovations in the field of education especially in English language teaching [1]. The innovative learning models emerged as alternative solutions to overcome various obstacles of traditional learning models in the EFL context. It appears that EFL students encountered problems in achieving comprehension in reading since English is not their first language. Some emerging issues such as students' lack of motivation, limited vocabulary, lack of prior knowledge as well as metacognitive strategies, and lack of target language exposure are confirmed to contribute to students' problems in comprehending academic English texts.

There have been greater numbers of studies already undertaken to investigate the effectiveness of blended learning in different EFL contexts [2]; [1]; [3]. Other studies with various platforms of innovations have also been investigated [4]; [5]; [6]; [7]; [8]. These studies confirm that blended learning is an enjoyable and powerful model in providing learners with significant language input. The Blended learning model has been considered as a promising teaching platform that addresses the issues in EFL reading comprehension since it provides flexibility and learning independence.

Previous studies have also confirmed if online learning invokes and generates students' motivation. Adzuhaidah M. Taha and Thang Siew Ming [9], for

example, discovered that online learning not only promotes self-efficacy and autonomy, it also encouraged the students extrinsic and intrinsic motivation. Blended learning enables the teacher to integrate the traditional classroom with a computer to create a virtual classroom. Combining the traditional and online teaching modes allows language learners to interact with the language inside and outside of classroom settings to allow more learning autonomy. In addition, this model induces metacognitive strategies essential for both receptive productive skills which will, in turn, improve students' participation and engagement.

Considering its positive effect on the language learning process it is essential therefore that today's language teaching needs to engage technology by using the internet as a supporting process of generating language learning. Taking this into consideration, the study aims at gaining a coherent and systematic activity of language instruction that empowers a particular learning context concerning SMAN 22 Makassar by using Schoology which is integrated with face-to-face teaching.

This study ventured into reading comprehension for young learners which measures their literal and inferential level of comprehension. The critical level was not included since the basic competencies on the syllabus used in SMAN 22 Makassar for XI grade students cover only literal and inferential levels of comprehension. The focus of this study is on the use of the face-to-face driver model by using the platform

named Schoology. Schoology has been considered as a more convenient teaching web layout with more features of which were not provided by other platforms.

## 2 BLENDED LEARNING MODEL

The term blended learning has been prevalent in EFL classrooms commonly used for specific English courses and at the tertiary level of education. It involves the blend or combination of traditional and computer-assisted language learning. It is a learning model that integrates innovation and technology through online learning systems with the incorporation of traditional learning. In addition, this model can be a means of interaction between teacher and student. This model also enables the teacher to create tasks aiming at challenging students' knowledge of reading being discussed in the classroom. To sum up, this model could invoke students' background knowledge necessary for the strengthening of the reading comprehension process.

Teaching reading as a receptive skill requires strategies before, during and after reading. The activity before reading is aimed at achieving the affective goals, which constitutes developing a positive attitude toward reading and empowering their reading strategies. Cognitive and metacognitive reading strategies can be empowered to achieve the reading goals. Text comprehension, for example, can include identifying the main idea, finding specific information, and inferring explicit information. Meanwhile, the post-reading activity involves the integration of reading skills to other language skills which may require both intensive and extensive readings.

**Table 1. Reading Instruction Using Blended Learning Model**

Face-to-Face Learning	Teaching Reading Process		
	Pre-activity (before reading)	Whilst-activity (during reading)	Post-activity (after reading)
Teaching Strategy	The students predict what the text will be about from the pictures, audio, or video that is shown or played.  After the students	The students reread the text intensively. While reading, they answer the available comprehension questions.  The students and the teacher discuss the mistakes that are made by	The students reread the text. While reading, the students synthesize the reading text  The students tell the others

	1 have made their prediction, they find out whether or not their prediction s are correct through scanning the reading text.	1 the students in answering the questions	1 about the result of the synthesis
Purpose of Activity	To activate or building prior knowledge	To achieve the cognitive goal, that is to comprehend the reading text	To integrate reading skill with other language skills (writing and speaking) and language element (vocabulary )
	To develop positive attitude toward reading and develop critical thinking		
Materials	Picture, Audio, Video, Questions, Reading text, Other web pages	Reading text, Comprehension Questions	Reading text
Online Learning (by using Schoology )	Accessing Schoology application or web	Reading Text in Schoology	Evaluation: Assignment (Answering questions based on the text)
	Evaluation : Quiz (Online)		

In this study, the researcher conducted the teaching-learning process face-to-face inside the classroom and utilizes Schoology as media for learning outside the classroom. Students can submit their tasks through that media on time and can utilize the class forum as a group discussion in addition to the face-to-face classroom. Application of Blended Learning Model increased students' reading comprehension in terms of the literal and inferential level of comprehension.

### 3 METHOD

The quasi-experimental design was applied for this research. The students were divided into two classes, namely experimental and controlled classes. Pretest and posttest were performed on both classes to gain initial performance of the students' reading comprehension. The experimental class was given treatment using Blended Learning Model which is Face-to-Face Driver by using Schoology, whereas controlled class was taught reading in traditional classroom format without online learning. It was expected that there was a difference in the achievement of reading comprehension between experimental and controlled classes.

To measure both the homogeneity of the learners and their progress, a reading comprehension test was administered before and after the intervention. Reading test consists of a narrative and report text, each test measures the literal and interpretative level of students' reading comprehension. To obtain information about the students' ability in reading comprehension after the treatments, a post-test of reading comprehension was also administered. This test included the same content but employed different items. The total number of items was 25 which consist of 20 essays and 5 multiple-choice items.

In performing data analysis, the result of the students' test was scored. After scoring students' pre-test and post-test answers, prerequisite analysis was employed by including normality test and homogeneity test. It was assumed that the normality of data distribution using normality test measured homogeneity of the population by using homogeneity test in SPSS 20. After the normality and homogeneity test were performed, hypothesis testing was conducted.

### 4 FINDINGS

The total sample (N), minimum and maximum scores, mean scores, and standard deviation were analyzed and displayed in the following table. The scores were obtained from pretest and posttest score of students in controlled class and experimental class.

Table 2 Descriptive Statistics of Students Pre and Post-test

Descriptive Statistics					
	N	Min.	Max	Mean	Std. Dev.
Pre-Test Experiment	30	28	99	62.43	22.639
Post-Test Experiment	30	63	100	79.53	12.048
Pre-Test Control	30	30	96	62.63	13.192
Post-Test Control	30	50	98	67.23	12.244
Valid N (listwise)	30				

The result of analysis of students' pre-test show that in the experimental class, the minimum pre-test score was 28, the maximum score was 99 and the average of score was 62.43 with standard deviation was 20.693. The minimum pre-test score in controlled class was 30, the maximum score was 96 and the mean score was 62.63 with standard deviation was 13.192.

The table also shows that post-test minimum score for experimental class was 63, maximum post-test score was 100 and the mean score was 79.53 with standard deviation was 12.048. Meanwhile the minimum score of students' post-test in controlled class was 50 and the maximum score was 98, the mean score was 67.23 with the standard deviation was 12.244

In this study, independent sample t-test was employed to measure significant difference on students' score in experimental and controlled class and the result is displayed in table 3

Table 3 Group Statistics of Post-test in Experimental and Controlled Class

The table above shows that the mean score of students' post-test in experimental class is 79.53 with standard deviation = 12.048, whereas mean score of students' post-test in controlled class was 67.23 with standard deviation = 12.244. It indicates that there was difference between their post-test scores as much as 12.3. The result of independent t-test can be seen in the following table

Table 4 The Result of Independent T-test

Independent Samples Test					
Group Statistics					
	Class	N	Mean	Std. Dev	Std. Error Mean
Students' Reading Comprehension	Post-Test Experimental	30	79.53	12.048	2.200
	Post-Test Control	30	67.23	12.244	2.235
Levene's Test for Equality of Variances					



significant improvement in terms of reading performance.

The present study has reinforced that blended learning model empowers teacher-student interaction, strengthens students' engagement and provide more accessible materials in learning. Blended learning has also enabled students to take more responsibility for their independent learning and to increase their involvement and participation. This study has in turn resolved the emerging problems faced by students under investigation concerning lack of teaching innovations. There is a need to take into account some factors for implementing the platform of Blended learning. Teachers, for example, need to take into account the students range of vocabulary that may impede their comprehension. Students' fluency, knowledge as well as teachers' ability in designing productive materials needs to be taken into consideration. Moreover, Blended Learning Model could be effective to help EFL learners improve their reading comprehension skill provided that necessary attention is given to suitability of materials and technology. Suitability of technology and teaching materials should also be taken into account with reference to students' needs and interests.

Despite the benefits of blended learning can have, it needs to be associated with some challenges EFL learners may encounter such as lack of computers and access of internet, lack of support and resources for course design, and poor teachers' technological skill . Overall, the findings reinforce the view that a blended learning model strengthens students' ability in reading comprehension. Hence, this study reinforces that teachers, regardless the challenges which may arise, inevitably must adjust their teaching to these new challenging teaching innovations and explicitly instruct their students how to make their learning most effective with the help of Information and Communications Technology (ICT).

Despite the positive impact of this study, major limitation may be evident, such as the research findings are based on the practice in a single school. Therefore future research area needs to be extended to a wider context of EFL situations and research methodology needs to adopt qualitative research paradigm in order obtain a more general picture of segments of learners the models may be applicable. In other there is a need to conduct other study on the use of blended learning in particular subject and broader context of learning situations. This study did not cover critical level of comprehension therefore it is important that the further research measure higher level of reading comprehension to obtain a more reliable and valid research findings.

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