# A Blended Language Learning Model: Adolescent Learners' Attitudes towards it and its Effectiveness in the Teaching and Learning of L2 Writing 

# نموذج التعلم المختلط: اتجاهات المتعلمين المراهقين نحوه و تأثيره في تعليم و تتعلم الكتابة في اللغة الثانية 

## By

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#### Abstract

A blended learning approach is a new concept in the field of modern education which combines face-to-face and online instruction, and is considered an essential aspect of education advancement in the current century (Thorne, 2003). This dissertation uses a mixed method research design so as to collect qualitative and quantitative data required in investigating three main areas related to English language teaching (ELT) and to adolescent learners (12-16 years) who learn English as a foreign language (EFL). First, it provides a description for a blended language learning model that combines face-to-face and online modes of instruction. Second, the study investigates students' attitudes towards implementing blended language learning approach. Third, it assesses the effectiveness of this approach on improving students' second language (L2) writing levels.

In general, research on 'blended learning' that studied the difference between traditional and blended learning in foreign language does not indicate significant differences in learning output although showed positive students' attitude towards this type of instruction. Nonetheless, the studies conducted on 'blended learning' did not include adequate description of interaction and activities in this learning environment as they did not have sufficient description of its features like teaching and learning materials, teaching methods, types of interaction, and roles of participants. Moreover, some of these studies did not base their work on the literature that focuses on students and teachers' attitudes.

Overall, the study provides a description of a blended learning model following the guidelines suggested by Neumeier (2005). Moreover, the findings of the study show that the adolescent students (14-16 years) had positive attitudes towards using blended language learning approach. It was also found that class learned by a blended learning approach had a significant improvement in students’ writing scores comparing with the one that learned by traditional learning.


"نظرية التتلم المختلط" مفهوم جديد في مجال التقليم المعاصر حيث يمزج بين التعليم "وجها لوجه"و "على شبكة الانترنت" و يعتبر جانبا أساسيا من جوانب التققم التُليم في القرن الحالي (نورن 2003). هذه الرسالة تستخدم أسلوب "طريقة البحث المختلط" لجمع البيانات الكمية و النو عية اللازمة للبحث في ثلاثة نطاقات مرتبطة بتدريس اللغة الانجليزية وكذللك بالطلاب المر اهقين (12-16 عام) الاين يتعلمون اللغة الانجليزية كلغة أجنبية. أولاً: تعطي هذه الار اسة وصفاً لنموذج تعليمي مختلط يمزج بين نمطي التعليم: "وجها-لوجهة" و" على شبكة الانترنت". ثانياً:
 تطبيق هذه النظرية على تطوير مستويات الكتابة لاى الطلاب الذين يدرسون الانجليزية كلغة ثانية.

بشكل عام ، تشير الأبحاث التي أجريت لدراسة الفرق بين مخرجات التعلم لطريقة التعلم التقليدية و مخرجات التعلم لطريقة التعلم المختلط إلى عدم وجود فوروق جو هرية و لكن الطلاب أبدوا اتجاهات ايجابية حيال استخدام نظرية التعلم المختلط. و مع ذلك، فإن الار اسات التي أجريت على "التعلم المختلط" لم تشتمل على وصف كاف للتفاعل و
 و طرق التنريس، و أنماط التو اصل و أدو ار المشاركين. كما أن تلك الار اسات لم يبني عملها على المرجعيات التي تركز على آراء الطلاب و المعلمين.

إجمالاً، تققم الار اسة وصفاً لنموذج تعليمي مختلط يتبع الخطوات المقترحة في (نيومير 2005). علاوة على ذلك، تنثير نتائج هذه الاراسة أن الطلاب المراهقين (14-16 عام) أبدوا اتجاهات إيجابية نحو "نظرية تعلم اللغات بالنموذج المختلط". كما أظهرت الدر اسة أن المجموعة التي تعلمت باستخدام النموذج التعليمي المختلط أحرزت تحسناً ملحوظاً في مستويات الكنتابة مقارنة بالمجمو عة الت تعلمت باستخدام نموذج التعليم التقليدي.
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## CHAPTER 1: INTRODUCTION

## Objective of the Study

The first objective of this study is to give a description of a blended learning model that is appropriate for teaching adolescent learners who learn English as a second/foreign language ESL/EFL. Moreover, it examines the attitudes of participants/learners towards employing a blended approach in language learning. Also, it evaluates the improvement of learners' writing proficiency in one text type, narrative, after engaging them in a blended language learning course that combines traditional and online instruction. The findings of this study contribute to enhancing the quality of teaching and learning in general and enhancing teaching second language to adolescent learners aged 12-16 years in particular.

This dissertation assumes that adopting a blended learning approach would improve students' engagement and interaction, provide more time and opportunities for learning, monitor students' progression and behavior, and improve communication with parents. Moreover, it helps instructors who teach without textbooks as it provides them with a platform that contains learning materials and activities without and cut printing and photocopying costs.

## Significance of the Study

The current century is characterized by the amazing technology revolution that dominates most aspects of life creating more demands for embedding technology into the teaching and learning environment. Thus, language learning is one area that is seen as the most influenced by technology since technological hardware and software use English as their medium of communication. As claimed by teachers and learners of ESL, a 45-miniute language lesson per day is insufficient to practice language, get feedback and engage in language activities. Therefore, this study assumes that a blended model of learning which combines online and face-to-face learning would have better results especially in the writing skills which need more practice beyond the classroom time.

Furthermore, having reviewed a blended learning literature, it shows that there is still a need for more research that investigates different features of the model such as: learning materials, pedagogies, types of interaction, and learners' and teachers' roles, which represent the essential features needed for designing and implementing effective blended models (Neumeier, 2005).

## Statement of the Problem

The new trend in education is to integrate technology in learning and teaching as the idea has become common in all aspect of life. Students in the current century tend to receive a percentage of their learning by computer-mediated instruction especially in higher education. Picciano (2009) explains that lessons that plan to integrate face-to-face and online activities together and use an appropriate pedagogy and online activities are considered blended learning classes. Therefore, language learning, in particular, should not be limited to using classroom hours and pedagogy.

Thus, a blended learning approach is viewed as an expected outcome of the twenty-first century developments (Thorne, 2003, p. 2). This expectation is stressed by Graham (2006) who argue that a blended learning approach "may even become so ubiquitous that we will eventually drop the word blended and just call it learning" (p. 7). So, this approach is expected to be dominant in the field of education in general. Most research done on "blended learning" investigates effectiveness of this approach by comparing students learning by this approach and students who learn by traditional classroom instruction in addition to investigating learners' attitudes towards the approach.

Nonetheless, a few studies focused on how a blended model is designed. In this regard, White (2006) recommends this area for future studies: "a crucial avenue for research concerns how students work within environments comprising typically classroom instruction, independent learning and online learning environments both individual and collaborative" (p. 259-260). So, the focus of future research should be on how blends are made so as to help teacher construct their models according to criteria that follow theory. Therefore, this dissertation provides a description of a blended model and how it works.

## Hypotheses

This study sets two main hypotheses to test throughout the study. The first hypothesis assumes that a blended learning approach to language learning is appropriate for engaging adolescent ESL/EFL students, 12-16 years old. This hypothesis is tested by conducting two questionnaires that examine students' attitudes towards the approach and the model used in the study. The second hypothesis assumes that this approach is more effective than traditional teaching in improving students' writing proficiency levels. This is tested by conducting a pretest and a post-test to compare the results of these two types of instruction.

Having many technological innovations and advancements in the current century, students in general and adolescents in particular have become 'digital natives' who tend to use technology and internet tools so skilfully not only in learning but also in all aspects in life. They are so familiar with using online communities and social networks to communicate with friends for hours per day.

They are keener on experiencing new things and usually accomplish tasks when challenged and engaged by authentic contexts and tasks which that meet their preferences. Nonetheless, they would not accomplish their tasks or learn effectively without having teacher's guidance and also differentiated learning opportunities. In description of the adolescent behaviour, Tapscott (2004) states: "They are not viewers; they are users and they are active. They do not just observe; they participate. They inquire, discuss, argue, play, shop, critique, investigate, ridicule, fantasize, seek and inform." Therefore, these digital natives, the young learners of the twenty-first century, not only wantacto inquire and learn but also to share their opinions either with teacher or with peers and they tend to do this online. So, there is a growing need for creating a blended learning environment that provides learners with advantages of traditional classroom learning and engages them after school time which results in enhancing learning time and opportunities.

However, having a well-structured blended model is not easy as it has to improve instructional designs and add more benefits to students and teachers. Many scholars may call this kind of learning 'hybrid' as it implies mixing two learning environments, face-to-face and online learning. This shift from purely traditional learning to having mixed methods in instruction creates and fosters a more effective and student-centred way of learning as well as making students more engaged whether in or outside classrooms. "This blended approach combines the best elements of online and face-to-face learning. It is likely to emerge as the predominant model of the future" (Watson, J., 2008, p. 3).

So, the importance of blended learning lies in its contribution to fostering: pedagogy, interaction, motivation, engagement and autonomous learning while also enhancing what occurs in traditional learning environments.

## Belief

Since a blended learning approach enhances communication and provides learning opportunities beyond the classroom time, adopting and implementing this approach requires a shift in teachers and students' attitudes and thinking as it introduces new concepts to learning and teaching. It focuses on individualized learning which is considered a big challenge of fostering autonomous learning. "Blended learning combines online delivery of educational content with the best features of classroom interaction and live instruction to personalize learning, allow thoughtful reflection, and differentiate instruction from student to student across a diverse group of learners" (Watson, 2008, p. 4).

So, this approach does not aim to leave students to learn an online course without his/her teacher's guidance or to just learn in the classroom without any extra learning opportunities beyond classroom. It provides an environment in which students have online learning materials that complement what they learn in class.

A blended learning environment is more student-centred and has more chances for differentiated learning that is fostered by giving students activities that suit their learning styles, preferences and intelligences. It gives teachers as well as students a high level of flexibility to include online/virtual communities, blogs, discussion boards and learning resources which gives teachers more opportunities to meet their learners' needs.

## Research Questions

As was previously mentioned at the beginning of this dissertation, the purpose of this study is to examine the appropriateness of a blended learning approach for adolescent Arab students who learn English as a second language and its effectiveness on improving their proficiency in writing narrative texts. As the study aims to describe a blended learning model, it does describe the model following the criteria mentioned in the literature of blended language learning (Neumeier, 2005). It also examines students' attitudes towards the blend and assesses its effectiveness on improving students' writing. The following research questions are the main focus of this study:

## Research Question 1:

How is a blended learning model used? How are the two methods, face-to- face and online, integrated?

The first research focuses on examining a blended learning model structure using the sixcriteria framework suggested by Neumeier (2005). When reviewing a blended learning research, it shows that it has been examined in CALL, but the literature shows a lack of details about learning materials, teaching methods, types of interaction, and roles of participant.

## Research Question 2:

What are the attitudes of students towards this blended learning model?

The second research question investigates the attitudes of students towards a blended language learning model as the researcher believes this examining this area is so significant for adolescent students in the twenty-first century who tend to think of everything in life as interactive and electronic. So adding methods that engage them is likely to enrich their and foster motivation.

To answer the second research question, the attitudes of students towards a blended learning model are examined by administering two student questionnaires at the end of the nine-week program so as to investigate students' perception of the approach. In this regard, EchavezSolano (2003) and Scida and Saury (2006) mention a number of studies that showed benefits of a blended learning such as: fast feedback and having more control over learning. Moreover, and in a relevant study, Yoon and Lee (2010) note that students had positive attitudes towards this approach. Thus, a number of studies show that learners did have positive attitudes towards using the blended approach in learning.

## Research Question 3:

Is there a significant improvement in students' writing skills when using a blended learning model?
To answer this research question, the study compares the scores pre-test and pot-test for groups of students: the experimental group that learns by a blended learning approach and the control group that learns by traditional classroom instruction. This comparison aims at finding whether a blended learning language course can have a statistically significant improvement in students' narrative-writing levels.

There are a few studies that assessed the effectiveness of blended language learning approach on improving students ESL/EFL writing proficiency. Behjat, Yamini \& Bagheri (2011); Ferriman (2013); Miyazoe \& Anderson (2010); Yoon \& Lee (2010) mention that using a blended learning appraoch did improve student-teacher interaction as well as students' writing skills. Green and

Youngs (2001) and Adair-Hauck et al. (2000) note that students made an improvement in the courses. Yoon and Lee (2010), in a similar study, states that students' showed positive attitudes towards the approach and it improved their test score.

## Scope of the Study

The purpose of this study is to: a) provide a blended language learning model that suits adolescent ESL learners; b) investigate students' attitudes towards a blended learning approach and c) evaluate blended learning effectiveness in improving students' writing skills. The previous three areas can contribute to recommending a blended model that suits ESL learners aged 12-16 years taking into consideration the model effectiveness and the learners' perceptions when designing a blended model. The study relies on a mixed method research design in order to collect qualitative and quantitative data required for the research. The qualitative data are essential for the model description and they include teacher's observations, time distribution, learning materials, location of learning, online platform, and feedback strategies. On the other hand, the quantitative data are mainly needed to answer the second and third research questions and they include student questionnaires responses and test scores.

## Context

The study was conducted in a public cycle 2 school in the United Arab Emirates (UAE) for boys aged 12-16 years. The school had been part of a big educational plan that aimed to improve educational outcomes in the emirate of Abu Dhabi, the capital city of the UAE as well as the national curriculum to be more student-centred and improve curriculum to be more student-centred. It also focused on creating a biliteracy learning environment with Arabic and English as media of instruction. The school in this study provides 5 English language lessons per week and each lesson is 45 -minutes. The school timetable allows each class to take a lesson in at one of the two computer labs where there is an LCD data projector, a computer with internet connectivity for each student ( 30 computers). The five weekly lessons teach students all language skills with a flexibility of content and skills distribution over the week.

The participants in this study are 60 students divided into two classes/groups: a control class who learned by traditional classroom instruction and an experimental group that learned by a blended leaning course. Both groups learned how to write a narrative text type and they were tested prior to and after the course. The two classes writing abilities are similar as the school
used to distribute them according to their overall achievement level in the previous year. (See Appendix 12)

## CHAPTER TWO: LITERATURE REVIEW

This chapter reviews literature that formed the framework for this dissertation and shaped the main elements of the study. 'The pedagogical rationale behind BLL [blended language learning] is the desire to allow for a higher degree of learner independence in the teaching and learning of second/foreign languages.' (Stracke, 2007b, p. 1).

## Definition of Blended Learning

For a wide range of teachers a blended learning approach is new to the field of education although the idea of blending instructional methods has been used in other fields than education. Nowadays, academics agree that face-to-face and online learning environments have various advantages and disadvantages. To maximize the advantages of both types of instructions and reduce the disadvantages, many organizations have commenced to blend components of both learning environments. This type of instruction delivery is usually mentioned as, 'Blended Learning' as it combines different methods of pedagogy aiming to have the best learning outcomes.

In the effort of blending the best practices of instruction and learning environment, 'blended learning' has been a sign of advancement in educational contexts. However, this 'new' trend is still vague in some of its aspects especially that is of term and its definition. (Laster, 2004, p. 154), for example, stated that blended learning:
"[A]t one extreme; one could argue that 'blended' learning can be any kind of learning. However, in an applied view, one generally equates blended learning to a teaching and learning experience that uses technology. Within the bounds of the applied view, great variability still exists around a firmly established blended learning definition"

Four different features are put together to refer to blended learning;

1. "To combine or mix modes of web-based technology (e.g., live virtual classroom, self-paced instruction, collaborative learning, streaming video, audio, and text) to accomplish an educational goal.
2. To combine various pedagogical approaches (e.g., constructivism, behaviourism, cognitivism) to produce an optimal learning outcome with or without instructional technology.
3. To combine any form of instructional technology (e.g., videotape, CDROM, web-based training, film) with face-to-face instructor-led training.
4. To mix or combine instructional technology with actual job tasks in order to create a harmonious effect of learning and working." (Driscoll, 2002, p.54)

The concept of blended learning was first introduced in business and in professional development in particular (Sharma and Barrett, 2007). Then this term was used in tertiary education (MacDonald, 2006) before entering into the field of English language teaching (ELT). Literature on blended learning is debatable whether blended learning approach belongs to corporate training or to education. Masie (2006) argues that '...blended learning has always been a major part of the landscape of training, learning and instruction' (p. 22) and invites people to recall their university experience when they learned by various types and strategies of instruction. However, the appearance of this term in modern education is usually connected with what to blend and in general it often refers to including computer technology, online activities and learning materials in teaching and learning.

Tomlinson \& Whittaker (2013) argue that blended learning is more common in professional development, tertiary education and recently in (ELT). Yet, it is still not easy to provide a unified definition for 'blended learning' (Kerres and de Witt, 2003; Oliver and Trigwell, 2005; Sharpe et al. 2006; MacDonald, 2006; Sharma and Barrett, 2007). This term is used differently by different contexts and described by different words. It is 'hybrid or mixed learning' in (Stracke, 2007, p. 57); it is 'e-learning' in (Shepard, 2005) and it is described as 'b-learning' in (Banados, 2006, p. 534).

Smith and Kurthen (2007) in (Gruba and Hinkelman, 2012, p. 4) distinguish between them by mentioning the percentage of each component. The table below shows the terms used in connection with blended learning:

| Term | Definition |
| :--- | :--- |
| Web-enhanced | Subjects that employ online materials at a minimum level by <br> uploading materials or making announcements. |
| Blended | Subjects that use online activities, bedside face-to-face learning, but <br> less than $45 \%$ is online. |
| Hybrid | Subjects that combine online and face-to-face when online <br> activities represent 45:80\% of teaching time. |
| Entirely online | $80 \%$ or more is online activities and materials |

Table 1: Terms used for 'blended learning'. (Gruba and Hinkelman, 2012, p. 4)

In the field of (ELT), there is a distinction between web-designed learning, blended language learning, and face-to-face language learning (Dudeney \& Hockly, 2007). Although many terms like these seem similar, a blended learning approach often refers to combining face-toface teaching and computer learning that might include online/offline activities and materials.

With reference to corporate sector, (Singh and Reed, 2001, p. 1) define a blended learning model as 'a learning program where more than one delivery mode is being used with the objective of optimizing the learning outcome and cost of program delivery'. In their definition, Singh and Reed (2001) do not describe what 'the delivery modes' are. However, Valiathan (2002) suggests a more specific definition that includes: 'face-to-face classrooms, live e-learning, and self-paced learning' (p. 1). Reid-Young (n.d.), as well, mentions other modes of delivery and explains that delivery modes may include different activities such as classroom lessons or coaching sessions that aim at improving certain areas of weaknesses.

Banados (2006) gives a definition for blended learning in higher education by stating that it: 'a combination of technology and classroom instruction in a flexible approach to learning that recognizes the benefits of delivering some training and assessment online but also uses other modes to make up a complete training program which can improve learning outcomes and/or save costs.' (Banados, 2006, p. 534).

Therefore, in the context of higher education the definition includes the modes of technology and classroom instruction, and though does not explain specifically what the
'other modes' are. (de Gregorio-Godeo 2005) and (MacDonald 2006) give similar definitions to that of (Banados 2006). On the other hand, the definitions of blended learning in higher education are briefer than those used in the corporate sector and therefore blended learning definitions in relation to language teaching and learning seem brief. With regard to higher education, (Neumeier 2005, p. 164), in her study, defines blended learning as 'a combination of face-to-face ( FtF ) and computer assisted learning (CALL) in a single teaching and learning environment'. In her study 'Why a good blend is important', Stracke (2007) gives a very similar definition for blended learning explaining that it is " a particular learning and teaching environment, that combines face-to-face (f2f) and computer assisted language learning (CALL). In this instance, the "blend" consisted of learners" independent self-study phases at a computer, with a CD-ROM, and traditional f2f classroom learning." (Stracke, 2007, p. 57). So, defining blended learning in higher rely on combining face-toface and computer-assisted learning.

Dudeney and Hockly (2007) and Sharma and Barrett (2007), well known as ELT experts and authors in the area of blended language learning, offer similar definitions to those of Neumeier (2005) and Stracke (2007) but they have one little difference related to the use of the term (CALL) mode. Therefore, in many studies done on blended learning 'technology' is used instead of 'CALL' as the term 'technology' indicates:
"a language course which combines a face-to-face (F2F) classroom component with an appropriate use of technology. The term technology covers a wide range of recent technologies, such as the Internet, CD-ROMs and interactive whiteboards. It also includes the use of computers as a means of communication, such as chat or email, and a number of environments which enable teachers to enrich their courses, such as VLEs (virtual learning environments) ..., blogs ... and wikis ..." (Sharma and Barret, 2007, p. 7).

So, technology is seen a broader term that includes electronic devices and software relating communication and education. However, Dudeney and Hockly (2007) give a broader definition by explaining that using technology does not necessarily mean an online activity as it can be imply using a CD and a computer for instance. So, they prefer to give the term (CALL) a broader definition that includes using electronic devices, such as computers, and using online tools as well.

## Why should instructors use a 'blended learning approach'?

Dewar and Whittington (2004) highlighted the reason why corporate sector and education should use blended learning. In the context of 'corporate sector', (Dewar and Whittington, 2004, p. 5) mention a list of reasons for why blended learning should be employed. These reasons include; the ability to meet different learning styles ( $80 \%$ ); differentiation and providing individualized learning solutions (70\%); fostering learning level (62\%); use the investments they have already made in re-usable training resources (59\%); lack of time cover all classroom activities(57\%). They do not provide details about each reason in this list, and do not mention indication if any of them is really effective and not just a hypothesis like what is mentioned about 'fostering learning level'.

There are common features between the previously mentioned list of reasons and that list of (Singh and Reed 2001). Singh and Reed (2001), two years before conducting the above study, listed four advantages for using a blended learning approach: foster learning effectiveness; foster accessibility; save cost and time; improve business results (cut costs of transportation and faster to achieve learning goals). Sharma and Barrett (2007) mention the advantage of cost saving with regard to the business world and they highlight the appropriateness of a blended learning approach for learners' learning conditions who can access online learning materials and study them when they wish to and as fast or slow as they want.

In relevance to the field of education, Dewar and Whittington (2004) and Graham (2004) mention the six reasons why Osguthorpe and Graham (2003) believe in effectiveness of using blended learning. They argue that it should be used as it: improves teaching methods; enhances availability learning materials which can be accessed at any time; improves interaction of student-student and student-teacher; individualizes learning by giving students more freedom in making choices and decisions; cuts cost of learning; and it is easy to use at revision times. Marsh et al. (2003) mention that 'blended learning' can be used to work out learning problems such as reducing cost of leaning in university education, and improving instruction and pedagogy when teaching large size classes and groups. Similarly, (MacDonald, 2006, 22) mentions that online media is an effective solution to meet the nonstop class-size increase and also to work out 'changes in student demography...a growth in part-time study'.

In their review of blended e-learning in the tertiary sector, Sharpe et al. (2006) found out that blended e-learning was employed in different contexts for special reasons relating to each
institute, yet they it was characterized by: high accessibility, variety of support, fostering face-to-face learning, functioning according international criteria. The view provided by (Sharpe et al. 2006) that focuses on the approach's flexibility and argue that there is a need for providing more flexible learning opportunities to suit social, cultural, economic and political changes, especially in the context of Britain.

In higher education, Graham (2004) summarized the reasons for employing a blended learning approach: a) better teaching methods; b) more access opportunities to learning materials; and c) less cost. Statements such as 'pedagogy before technology' (Beetham and Sharpe, 2007, p. 3) have been used by some insightful experts to highlight the need for technology in order to improve pedagogy because it has become a necessity in education and not just an extra option or add-on.

Moreover, 'Improved pedagogy' is mentioned and highlighted in blended learning for ELT. However, it seems that this topic has not been fully elaborated and has been mentioned in general phrases like: "Blended learning seeks to combine the best of the taught element of a course with the benefits of technology so that, the argument goes, better learning outcomes can be achieved" (Sharma, 2007). The need for embedding technology in education is mentioned more directly: 'we will assume that you have decided to incorporate technology into a language course for a pedagogical reason, and by doing so, you are adding value to the teaching' (Sharma and Barrett, 2007, p. 7). Sharma and Barrett (2007) three main reasons for employing blended learning in business world: cost, convenience and ability to work within your favourite time and at your own speed which makes it appropriate in language learning. However, there is a need for investigating Sharma and Barrett's (2007) argument about the cost effectiveness as a basic reason for incorporating blended learning into ELT. They base their argument upon the belief that initial cost of hardware and software is high, add to that the regular service, replacement and hardware and software development. Yet, this cost is dependent on the blend design and its context as in some contexts students use their own devices such as computers and electronic tablets.
(Hockly, 2011, p. 58) gives three reasons for adopting blended learning in ELT additional ones:

1. Learners' expectations (who expect that modern language classes should incorporate technology.
2. Flexibility (to meet the needs of learning in the twenty-first century busy, especially in higher education.)
3. Education policies-Some education system policies require teachers to provide blended learning.

## How effective is blended learning?

There are two main reasons beyond adopting blended learning as a teaching approach; first of which is to improve learning and the second is reduce cost of learning. However, the focus should be on "Is blended learning effective? And in which aspects is it effective?" (Dewar and Whittington, 2004, p. 5) mention that literature that highlights effectiveness of blended learning, its definition and how to implement it is so little, mentioning that:
"There is some anecdotal evidence about how well participants liked blended learning and many articles outlining the costs saving associated with integrating technology. There is also a growing literature base about the learning outcomes achieved through using various types of technology. The biggest challenge is finding studies that specifically address blended learning, as opposed to the use of technology alone." (Dewar and Whittington, 2004, p. 5)

In higher education, blended learning courses were successful in improving students’ achievements. (Dziuban et al., 2004, p. 5) note that: 'the potential to increase student learning outcomes while lowering attrition rates in comparison with equivalent fully online courses', and they also discovered that blended learning outcomes in terms of 'success and attrition rates were comparable to the face-to-face modality for all ethnicities.' In a relevant study applied on English for Academic Purposes (EAP), findings showed that learners of similar achievement levels were more engaged by blended learning than distance learning (Harker \& Koutsantoni, 2005).

In terms of motivation, a number of researchers investigated students' opinions about blended learning. For example, Leakey and Ranchoux (2006) argue that the majority of students in their study showed positive attitudes towards having a blended learning approach in learning and preferred it to any traditional learning occurring within classrooms. Moreover, Brett (1996), in a similar study, notes that students had positive attitudes towards the approach and
argued that they did learn better when used multimedia which gave them individualized learning opportunities. Furthermore, in a Taiwanese study it was found that Taiwanese learners of EFL:

> 'had a positive attitude towards the use of multimedia resources in their language programme, appreciating, in particular, opportunities to practice and extend their language abilities by surfing the internet, to take laboratory-based listening tests via a test analyser, and to record and save their own writing and to make use of multimedia resources for developing their reading skills.' (Lin, 2003, p. 1).

Thus, the previously mentioned study shows that learners had positive attitudes towards using internet facilities along with the available technology to foster their learning and develop their language skills.

## Why Blended?

In his study, Stracke's (2007) mentions that designing an appropriate blend model is so important so as to engage learners and impact their retention. He also explains that students who do not complete the blended learning course as a result of:

- lack of teacher support and lack of integration between the two modes of the blend,
- feeling of uselessness of paper materials used for reading and writing
- unaccepting computer as an appropriate used tool for language learning.

Stracke (2007) highlights that two of the above mentioned reasons are used in other articles to refer to blended learning. The first one is the 'complementarity' aspect which Sharma and Barrett (2007) emphasise as important for blended learning. Also, Banados (2006) discovered that learners favoured the face-to-face mode to the online, and therefore developed a course to go with it. Banados (2006), also, discovered that learners favoured the face-to-face mode to the online, and therefore developed a course to go with it. This finding is also correct when considering context that have always given the lead to the face-to-face mode. Therefore it is important to create a balanced model that considers distributing the course time on each mode and also considers how the two modes are integrated.

Although there is a wide range of blended learning models mentioned and proposed in many
studies, finding the correct and appropriate model is still not easy. Thus, defining and describing the appropriate blend is not easy (Hofmann, 2001), and this opinion is also adopted by Sharma (2007) and Neumeier (2005). Moreover, a blended learning program that is implemented without following a certain design could be considered eclectic but may result in combining the disadvantages of both modes. (Sharma and Barrett, 2007)

Research conducted on creating blended models and studying how best to integrate technology into syllabus and face-to-face learning, is likely to support the previous studies. McKee (1999), for example, highlights that integrating CALL and technologies into learning environments should be planned and done according to certain rules and not to be randomly used. Another relevant research concluded that technology should be embedded into language learning as it was found that the study results: 'may be interpreted that it is both feasible and desirable to integrate in principled ways Technology Enhanced Language Learning (TELL) activities into the language learning curriculum' (Adair-Hauck et al. 1999, p. 269)

Other studies continued and seemed to get similar conclusions. (Yang, 2001, p. 91) mentions a study that was conducted at a university that used a web-designed research and concluded that 'computer learning networks have the potential to empower students in well-designed learning environments'. Therefore, it is fundamental to know that 'effective implementation of technology is not accomplished just as an 'add-on' to existing tools, it must be synergised into the language learning environment with the support of surrounding educational systems' (Yang, 2001, p. 92).

Nonetheless, most researchers admit that finding a perfect blend 'there is, of course, no single perfect blend - the concept is grounded on the notion of flexibility' (Lamping, 2004, p. 7). Also, creating a blended model is an interactive work that depends on planning, implementation and reflection. This meaning is highlighted by Beetham and Sharpe (2007) who argue that 'effective designs will evolve only through cycles of practice, evaluation and reflection' (p. 8). Therefore, there is a growing demand for having more research and empirical studies on this area so as to cover aspect relating to implementation and evaluation. Rossett et al., (2003), with to using blended learning in business, call for having more studies on blended learning and argue that: 'there's no cookbook for blends....the topic cries out for empirical research' (p.1)

In the field of ELT, a number of researchers share the previous views. As example, Neumeier, (2005) highlights that there is a need for more research so as to improve the
quality of learning and teaching provided by blended learning environments. Moreover, there is an emphasis on having more studies to be conducted on contexts other than university and colleges. Westbrook 2008) admits that most studies on blended learning were conducted in tertiary education and explains that this is: 'a huge deficit in terms of research on using blended learning by individuals or small language schools' (p.14).

Therefore, this study will contribute to increasing the empirical research that focuses on fostering this research area that aim to study and develop blended learning models that suit adolescent ELT learners aged 12-16 years old.

## Constructing a Blended Learning Model

"A blended course is defined as a course that combines face to face learning and distance learning to provide students with the best practices of both delivery methods" (Hijazi, Crowley, Smith \& Shaffer, 2006, p. 67). In review of the 'blended learning model', it is obvious that researchers set student engagement and learning via online technology among the essential features of any proposed blended learning model or design. Blended learning namely focusing on student academic achievement using the appropriate teaching and learning technology that meet students' different skills and learning styles (Singh \& Reed, 2001).

English Language Teaching (ELT) Blended Models.
Sharma (2007) explains that blended learning can be effective when 'two component parts should be integrated with the technology complementing and not replacing the efforts of the teacher'. So the two components should complete one another and not to work as spate units of work. Sharma (2007) also mentions five examples that show what to do in a blended lesson.

1. Teaching students how to give a presentation, to discuss, to use a CD-ROM.
2. Using an online class wiki.
3. Creating an electronic audio file.
4. Downloading Moodle software that helps have a virtual classroom.
5. Creating an online blog/diary.
(Sharma and Barrett, 2007, p. 13:14) propose these steps to develop a blended learning approach:
6. To 'separate the role of the teacher and the role of technology' because their roles are integrating and complementing one another.
7. To 'teach in a principled way' that considers meeting learners' needs selecting appropriate pedagogy.
8. To 'use technology to complement and enhance F2F teaching', which indicates that the two modes integrate each other with that face-to-face mode given the lead.
9. To consider the skills and quality of instruction rather than just relying on providing well-designed materials, 'It's not so much the program, more what you do with it' Jones (1986).

Also, Dudeney and Hockly (2007) explain that a possibly good blended learning course is the one that gives $75 \%$ to the online component while only $25 \%$ is given to the face-to-face component. They argue that a blended learning model that suits the learning environments can take three forms:

- A fully online course in which it is similar to the textbook.
- A blended course that gives $75 \%$ for online learning and $25 \%$ for the face-to-face mode. (p. 138:139)
- A face-to-face program supported by online learning activities

Moreover, Dudeney and Hockly (2007) refer to the importance of having standards that identify a good blend designer and explain that this person should be able to answer checklist of questions that functions as criteria that assess a blended design and its designer. These questions should focus on five main relevant topics: delivery mode (online/face-to-face), activities and learning materials, students, instructors, assessment.

Banados (2006) mentions a study that used a blended learning model for teaching English at a Chilean university. This model consisted of the following four components:
a. Learners' independent work using an online English software.
b. Face-to-face EFL lessons taught by teachers who are also the online tutors.
c. Online progression assessment led also by classroom teachers.
d. Weekly classroom discussions lessons led by English native speakers.

However, this study does not mention how the previous components were integrated and how time was allocated for each component. On the other hand, before conducting the study, it described how it understood the student's preference of face-to-face mode to online mode, the course's main content and that students' need for learning more ICT skills.

## Why writing?

The issue of the low level of proficiency in writing among adolescent Arab learners is so evident. So there is a growing need for more innovations that encourage Arab learners of English to improve their writing proficiency. Teachers and students' efforts are usually made during class-time, yet leaners need to expand their learning time so they get engaged in personal experiences that enable them to learn and even acquire the correct writing skills.

Limited research has been added to the area of 'effectiveness of blended learning' later after (Dewar \& Whittington 2004) had noticed the insufficient research and literature on this area. Many researches were conducted to examine 'students' attitudes, and found that they were positive towards applying CALL or multimedia. At tertiary level, research results point out that blended approach may enhance learners' retention rates. Yet, limited research are in favour of using blended learning as an effective instruction. This is still a questionable area for many researchers to find out why many researchers and educational providers employed 'blended learning' especially in higher education and in learning EFL.

Moreover, writing is still a challenging area in EFL that needs more focus and more tools so as to enthuse young EFL learners to practice and foster this skill. Pennington (2003) lists some benefits of involving computer into teaching and learning L2 as it increases: writing proficiency, motivation, writing production, interaction, learning new genres of writing, accessibility to materials and texts.

## Nature of Writing

"Writing is a basic communication skill and a unique asset in the process of learning a second language" (Chastain, 1988, p.244). Sokolik (2003) explains that writing is a perceptual process that includes creating ideas, thinking of how to organize them and utter them so that others understand and respond to them. So, it is a basic skill used for and developed by social communication.

Writing does include many sub skills and categories depending on the purpose of categorization. For example, the context of the current study employs the genre approach to writing, which teaches EFL students how to write different text types/genres. The genre approach implies teaching, explicitly, how to write different genres/types of texts such as: narrative, argument, exposition, information, procedure, explanation, email, diary, memo, description, letter, and others. Swales (1990) and Martin (1984) explain that text types/genres do
serve as communicative tools needed by certain communities/ and each genre has its own structure and language tools that support its communicative purpose (Kay and Dudley-Evans, 1998).

## CHAPTER THREE: THE STUDY

## Research Methodology

This chapter gives a description of the research approach used in conducting the current study which was carried out in an intermediate school for adolescent public school boys aged 1216 years. The course is designed for the ninth graders learning English as a second language (ESL) in a biliteracy learning environment. Classes started during the second trimester and were focused upon improving students' abilities in writing a 'narrative text type. It also demonstrates a discussion on qualitative and quantitative data analysis and it ends with assessment the instruments of student questionnaire. Moreover, the study investigates the attitudes of learners towards this model. The study collected both qualitative and quantitative in order to provide a description of the blended model and also collect data about students' opinions and writing scores. Thirty students, formed the experimental group, were engaged in a blended language learning course while another group of thirty students were in the control group.

A mixed method research design was used with an experimental design focusing on investigating the effectiveness of the intervention, a blended learning model, in improving students’ L2 writing. An experimental research design examines and assesses the effectiveness of an intervention in improving an aspect of the experimental group and then evaluates the results. An experimental research design examines and assesses the effectiveness of an intervention in improving an aspect of the experimental group and then evaluates the results. It includes an independent variable that does not vary, such as an intervention, an experimental group and a control group.

The mixed methods approach is used in research to benefit from the advantages and reduce the disadvantages of the quantitative and qualitative research methods. In this current study, the researcher qualitatively, needs to describe a blended learning model as a phenomenon by focusing on a small sample, and at the same time supports the study by, quantitatively, surveying students' attitudes and assessing the intervention depending on statistics of the results. So, the mixed methods design allows researchers to collect and analyse data both quantitatively and qualitatively which enables them to examine or create a theory. A mixed
methods research design enables researchers to design a study that covers and corresponds to complexity of a phenomenon which might include surveying participants' attitudes and measuring effectiveness of different variables. Thus, it is a suitable research design to: investigate, predict, explore, describe, and understand a phenomenon (Carr, 1994; Creswell, 2003; Johnson \& Onwuegbuzie, 2004; Mingers, 2001; Sale, Lohfeld, \& Brazil, 2002; Tashakkori \& Teddlie, 2003).

As explained in the previous chapter, studies on blended language learning attempted to assess the performance of blended in comparison with traditional classroom learning and ignored what students feel about this new innovation. In general, research in linguistics is often described as qualitative or quantitative and though with a thorough investigation, many studies are considered a combination of the two methods (Miles and Huberman, 1994). Moreover, literature of blended learning in higher education does not recommend comparative studies that compare performances of online leaning against face-to-face learning as they are more focused on investigating separate components of the blend rather than investigating the blend (Bliuc et al., 2007).

Therefore, a mixed method research approach which has the advantages of both qualitative and quantitative methods is appropriate for this study which collects qualitative and quantitative data. It can be defined as "a research in which the investigator collects and analyses data, integrates the findings, and draws inferences using both qualitative and quantitative approaches or methods in a single study or a program of inquiry." (Tashakkori \& Creswell, 2007b, p. 4).

Unlike quantitative studies, this study, in its first research question, gives a description of a blended model that can be used in similar contexts and help course designers to implement new models in language settings. Moreover, it gives a deeper understanding of the blended model as it mentions the attitudes of participants towards the approach which has always been a missing area in many previous studies. Onwuegbuzie and Leech (2004) mention three advantages of using a mixed-method research design: a) to examine a phenomena in a flexible and comprehensive method, b) to research both micro and macro aspects of a setting or phenomenon, and c) to support qualitative data analysis by quantitative analysis and vice versa. Moreover, the main advantage of mixed methods research that combines qualitative and quantitative methods is the integration of strengths and non-conflicting weaknesses (Johnson \& Turner, 2003).

## Participants

The participants in this study were 60 grade 9 Arab students learning ESL in an Emirati public school for boys. 30 students were engaged in a nine-week blended course that aimed at improving students' abilities in writing narrative texts. The students were taught by an ESL teacher, the researcher in this study, who employed the blended learning approach in this perspective. All of the students were Arabs native speakers aged 15 to 16 years who had learned by the same learning materials in both face-to-face and online modes. They also had similar language proficiency levels as they were accommodated into classes based upon their previous year achievements.

In addition to that, they had the same curriculum which assigns each class five lessons a week: one of them was taken in the computer laboratory where each student had a computer to use. The data on students' English narrative writing proficiency were collected by the pre-test that was administered in the first week of the study. The pre-test is a test that asked students to write a narrative text and they were referred to the rubrics against which they would be assessed. Moreover, the following table (No. 2) shows the number of years each student had learned English.

| Class Type | Sex | Number | Age | No. of Years <br> leaning English |
| :--- | :--- | :--- | :--- | :---: |
| Experimental Class | Male | 30 | $15-16$ | 8 |
| Control Class | Male | 30 | $15-16$ | 8 |

Table 2: Number of students with history of language learning

Each class consisted of 30 boys (see Table 1). The students of the experimental class were also 30 boys who had studied ESL/EFL for at least 8 years. The participants were grade nine students who studied all subjects in their native language, Arabic, for nine years while they studied English as second language for nine years and studied Science and Mathematics bilingually, in Arabic and English, for four years.

In order to measure students' writing proficiency in writing 'a narrative text type', they had a pre-test in which asked them to write a narrative text about a topic they were learning. Students' writings were marked using the 'writing for purpose' rubric provided by the government education district (see Appendix 11). The students did the pre-test at the end of Trimester 1. For the control class, the scores were measured and varied from 6 to 15 out of 16 marks against the rubric used for this purpose. As for the experimental class, the mean
score was 9.4 in the pre-test and 11.3 in the post-test with a standard deviation of 2.75 in the pre-test and 2.78 in the post test (see Appendix 12 and Table 3). The control class made a little higher/lower scores making a mean of 9.87 in the pre-test and 11.4 in the post-test with a standard deviation of 2.42 in the pre-test and 2.03 in the post-test.

| Experimental Class Test Scores |  |  |  |
| :--- | :---: | :---: | :---: |
|  | Previous Year | Pre-test | Post-test |
| Mean | 11.8 | 9.4 | 11.3 |
| StDev | 2.1 | 2.7 | 2.8 |
| Control Class Test Scores |  |  |  |
|  | Previous Year | Pre-test | Post-test |
| Mean | 11.5 | 9.9 | 11.4 |
| StDev | 1.8 | 2.4 | 2.0 |

Table 3: Test scores
The majority of students in the two classes had sufficient skills and experience in using computers and online. Generally, the students were used to using computers and online applications as the two classes used to learn information and communication lessons via the same tools. However, the majority of students participating in this study were new to blended language learning approach.

## Instructor:

The instructor, also the researcher in this study, is an Arab non-native English speaker who had been teaching ESL/EFL for 17 years. He teaching experience in Egypt is 4 years and 13 years of experience in the UAE. He holds a bachelor's degree in Education and majored in TESOL. He is a very good user of computer and blogs used for educational purposes such as the free domains provided by wkiis.com and wordpress.com. Moreover, one of the instructor's goals is to find a solution of the issue of increasing usage of paper learning materials as students had to learn English language without textbooks.

## Learning Materials.

The online course materials were created to integrated with the face-to-face ones so they contribute to making a blended model for language learning that provides more opportunities for language practice and learning using this new approach (Solorzano \& Schmidt, 2009, p. iv). The online materials complement the content and the syllabus of they learn in class.

In order to access the online learning materials, students were give an access code. The teacher and students used the online materials at school once a week per class and they used the computer lab for this purpose.

According to the curriculum used in this context, students learned writing using the genre approach and the curriculum is considered a 'dogme' approach in which students learn English without a textbook and they learn from the materials they and their teacher brings to the classroom. This approach gives teachers a wide range of flexibility in choosing activities and learning materials.

In this study, the online materials included, content files, activities, assessment, e-mailing and a discussion board. There were three types of activities for practicing the writing skills. The assessment activities were given at the end of each unit (2-3 weeks) and either graded either automatically or by manually with electronic corrective feedback.

The automatically graded activities gave immediate feedback, were added to the student gradebook so teacher could monitor the progression/regression of each student throughout the course. The 'edmodo' platform, as a learning network, provides various forms of activity and quiz making such as: multiple-choice, True/False, fill-in-the-blanks, and matching. See (Figure 1) that shows examples these activities.


Figure 1: Online Activity and Quiz Options
The other type of activities and assessment was the teacher manually graded activities were in the form of open questions that required students to write part of/a narrative and the teacher gave electronic corrective feedback along with the grade. Moreover, using electronic corrective feedback enables the teacher to give comments so students can clearly understand how to improve. Figure 2 shows how the teacher annotated the students' writings in order to give them corrective feedback and comments on how to improve.


Figure 2: Online Electronic Corrective Feedback

## Data Collection

The data collected for this study were both qualitative and quantitative. They tests and student questionnaires to collect the quantitative data whereas observations and interviews collected the qualitative data.

A pre-test and a post-test were conducted to collect quantitative data of students' achievement levels before and after the intervention (blended model). The tests asked students to write a narrative text and follow the rubric provided for marking. (Appendices 7, 9 and 11)

## Student Questionnaires (Appendices 1\&2)

Two student questionnaires were administered to students, in this study, in order to collect quantitative data about their attitudes towards this blended learning model. The questionnaires' questions were close-ended although it provided a space at its end to add additional comments, which were very helpful in understanding their responses. The questions put against Likert-scale type with five answers (strongly disagree, disagree, not sure, agree and strongly agree).

Student Questionnaire 1 surveyed the students' opinions about the blended learning model used in the study in order to investigate their motivation about blended learning approach. It also examined their interaction, and the integration of modes. Student Questionnaire 2 investigates the attitudes of students towards the model and its impact on their learning in general and on their writing performance in particular. The questionnaires were administered at the end of week 9 when the students had completed the whole course.

## CHAPTER 4: RESULTS AND DISCUSSION

This chapter presents and discusses the results of the study by referring to the blended learning model effectiveness, its design and participants' attitudes towards the blended model. The research questions' results are presented one by one. The blended learning model is analysed and described based on the six parameters of Neumeier (2005).

## Research Question 1:

## Designing a Blended Learning Model

The first research question studies how the blended language learning model is designed and how its two modes are combined. It mainly focused on how the blended model was used with the experimental class that employed this model throughout the writing course that took 9 weeks. The study describes how the two modes of the blended model, face-toface and online, are combined. The description and analysis of the control class blended model is done according to Neumeier (2005) six parameters: mode, model of integration, distribution of learning content and objectives, language teaching methods, involvement of learning subjects (students, tutors, and teachers), and location. After discussing each parameter, the blended learning model of this study is described.

## The Modes

The blended language learning model in this study consisted of the face-to-face classroom mode and the online mode. The face-to- face mode included 45-minute lessons taken in the classroom 4 times per week (see Table 4). While the online mode included a 45-minute lesson a week in the school computer lab where students completed homework, got teacher's feedback and worked out technical issues for their online accounts.

| Experimental Class | Mode |  |  |
| :--- | :--- | :--- | :--- |
|  | Face-to-face | Online |  |
| Place | Classroom | Computer lab | Other |
| Time | Mon, Tue, Thu, Wed | Thursday | 25 minutes a day |
| Control Class | Mode |  |  |
|  | Face-to-face | Online |  |
| Place | Classroom | Computer lab | Other |
| Time | Sun, Mon, Tues, Wed | Thursday | At School Only |

Table 4: Modes Time \& Place Distribution for the Experimental Class and Control Class

The time assigned for the two modes is shown in (Table 5\&6) for the two classes in the study. The table shows the nine-week course from January 12 to March 13 for both classes.

Table 5: Time spent on each mode for the Experimental Class.

| $\begin{array}{\|c} 7 \\ \vdots \\ \ddot{8} \\ 3 \\ 3 \\ \hline \end{array}$ | $\frac{5}{E}$ |  | Face-to- face | Online |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Date | Time Spent | Computer Lab Time | Online Home |
| $\begin{aligned} & \overrightarrow{4} \\ & \stackrel{0}{0} \\ & 3 \end{aligned}$ |  | 12 Sun | 45 |  | 25 |
|  |  | 13 Mon | 45 |  | 25 |
|  |  | 14 Tues | 45 |  | 25 |
|  |  | 15 Wed | 45 |  | 25 |
|  |  | 16 Thurs | 45 | 45 | 25 |
| $\begin{aligned} & n \\ & x \\ & 0 \\ & 0 \end{aligned}$ |  | 19 Sun | 45 |  | 25 |
|  |  | 20 Mon | 45 |  | 25 |
|  |  | 21 Tues | 45 |  | 25 |
|  |  | 22 Wed | 45 |  | 25 |
|  |  | 23 Thurs | 45 | 45 | 25 |
| $\begin{aligned} & m \\ & \frac{x}{d} \\ & \vdots \\ & z \end{aligned}$ |  | 26 Sun | 45 |  | 25 |
|  |  | 27 Mon | 45 |  | 25 |
|  | : | 28 Tues | Fieldtrip |  | 25 |
|  | $\vec{E}$ | 29 Wed | 45 |  | 25 |
|  | $\cdots$ | 30 Thurs | 45 | 45 | 25 |
| $\begin{aligned} & \pm \\ & \boxed{d} \\ & \vdots \\ & 3 \end{aligned}$ |  | 2 Sun | 45 |  | 25 |
|  |  | 3 Mon | 45 |  | 25 |
|  |  | 4 Tues | 45 |  | 25 |
|  |  | 5 Wed | 45 |  | 25 |
|  |  | 6 Thurs | 45 | 45 | 25 |
| $\begin{aligned} & n \\ & \frac{n}{d} \\ & 0 \\ & 3 \end{aligned}$ |  | 9 Sun | 45 |  | 25 |
|  |  | 10 Mon | 45 |  | 25 |
|  |  | 11 Tues | 45 |  | 25 |
|  |  | 12 Wed | 45 |  | 25 |
|  |  | 13 Thurs | $\begin{aligned} & \text { Missing class- } \\ & \text { bad weather } \end{aligned}$ | Missing class bad weather | Cancelled |

Table 5.... (Continued)

|  | $\sum_{i}^{5}$ | Date | Face-to-face | Online |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { u } \\ & \ddot{y} \\ & z \end{aligned}$ |  |  | Class time | Comp. Lab <br> Time | Online Daily <br> Activity |


|  | 16 Sun | 45 |  | 25 |
| :---: | :---: | :---: | :---: | :---: |
|  | 17 Mon | 45 |  | 25 |
|  | 18 Tues | 45 |  | 25 |
| $\begin{aligned} & \text { 苋 } \\ & \hline \end{aligned}$ | 19 Wed | 45 |  | 25 |
|  | 20 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |
| $\begin{aligned} & n \\ & \frac{x}{8} \\ & 3 \\ & 3 \end{aligned}$ | 23 Sun | 45 |  | 25 |
|  | 24 Mon | 45 |  | 25 |
|  | 25 Tues | 45 |  | 25 |
|  | 26 Wed | 45 |  | 25 |
|  | 27 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | 2 Sun | 45 |  | 25 |
|  | 3 Mon | 45 |  | 25 |
|  | 4 Tues | 45 |  | 25 |
| 曾 | 5 Wed | 45 |  | 25 |
|  | 6 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |
| $\begin{array}{\|c\|c} u \\ 0 & \tilde{u} \\ 3 & \sum_{2}^{2} \\ \hline \end{array}$ | 9 Sun | 45 |  | 25 |
|  | 10 Mon | 45 |  | 25 |
|  | 11 Tues | 45 |  | 25 |
|  | 12 Wed | 45 |  | 25 |
|  | 13 Thurs | 45 | 45 | 25 |
| Total minutes |  | 1935 | 360 | 1100 |
| Total hours |  | 32 | 6 | 18 |

Table 6: Time spent on each mode for the Control class.


Table 6: (Continued)

| $\begin{array}{\|l} \hline \begin{array}{l} \# \\ \text { u } \\ \vdots \\ \dot{d} \end{array} \end{array}$ | $\begin{aligned} & \stackrel{\pi}{\tilde{D}} \\ & \sum_{i} \end{aligned}$ |  | Face-to-face | Online |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Date | Class time | Comp. | Online <br> Home |
| $\begin{aligned} & 0 \\ & v \\ & 0 \\ & 0 \end{aligned}$ |  | 16 Sun | 45 |  |  |
|  |  | 17 Mon | 45 |  |  |
|  |  | 18 Tues | 45 |  |  |
|  |  | 19 Wed | 45 |  |  |
|  |  | 20 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |  |
| $\begin{aligned} & \sqrt{x} \\ & \frac{y}{0} \\ & \frac{0}{3} \end{aligned}$ |  | 23 Sun | 45 |  |  |
|  |  | 24 Mon | 45 |  |  |
|  |  | 25 Tues | 45 |  |  |
|  |  | 26 Wed | 45 |  |  |
|  |  | 27 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |  |
| $\begin{aligned} & \infty \\ & \frac{\pi}{⿺} \\ & 0 \\ & 0 \end{aligned}$ |  | 2 Sun | 45 |  |  |
|  |  | 3 Mon | 45 |  |  |
|  |  | 4 Tues | 45 |  |  |
|  |  | 5 Wed | 45 |  |  |
|  |  | 6 Thurs | 45 | 45 | 25 |
|  |  |  |  |  |  |
| $\begin{aligned} & \frac{2}{\mathrm{~g}} \\ & \frac{0}{8} \end{aligned}$ |  | 9 Sun | 45 |  |  |
|  |  | 10 Mon | 45 |  |  |
|  |  | 11 Tues | 45 |  |  |
|  |  | 12 Wed | 45 |  |  |
|  |  | 13 Thurs | 45 | 45 | 25 |
| Total minutes |  |  | 1935 | 360 | 225 |
| Total hours |  |  | 32 | 6 | 3.75 |

The following table compares the number of hours spent by each class in the study in regular classroom lessons, in school computer lab and online from homes. The data collected show that both classes spent the same number of hours on the traditional classroom learning and also the computer lab.

| Class Type | Face-to-face | Online |  |
| :--- | :---: | :---: | :---: |
|  | Class Time | Comp. Lab Time | Online Daily Activity |
| Experimental | 32 | 6 | 18 |
| Control | 32 | 6 | 3.75 |
| Difference in hours | 0 | 0 | 14.25 |

Table 7: Time spent by the Experimental Class and the Control Class during the nine-week course (in hours)

Neumeier (2005) refers to the lead mode and explains that its definition is based on having two variables, time and content. So, the lead mode can be recognized when "learners often spend most of the time in this mode, they are guided through the learning process here" and "the sequencing and organization of content or negotiation of content is done and presented in the lead mode" (Neumeier, 2005: p. 167). Thus, according to the previous definition this study gave the lead to the face-to-face as it was given more time and students spent most of the course time in this mode, around $65 \%$ (see Table 5, 6 and 7.).

Progress / 9-4


Recent Student Performance

```
56%% Complese tha maving mode in the amsy
65% 9 Crov M ir Pat Smpu
66% Q Par Smple
90%% OPmonticion
```

Figure 3: Monitoring Class Overall Progression


Figure 4: Monitoring Class Overall Progression

Khalifa A.


Figure 5: Monitoring Individual Student Progression
In addition to the online activities, the course used the 'edmodo' platform as a communicative blackboard through which the teacher posted emails, gave feedback, made announcements and alerts and also shared discussions (see Figure 6).


Figure 6: edmodo platform communication options
Thus, the previous features were included in the design so they could be used by both the teacher and students in order to reinforce the students' writing skills and their abilities to create and develop their ideas.

## Modes Integration

Neumeier (2005) explains that the level of integration relies on ordering the modes and setting their level of integration. In this dissertation, the teacher has a high level of freedom to order the modes, sets a timetable for the lab and activities. The term "level of integration" refers to the
degree of flexibility teachers and students can have when designing or doing activities which enables them to modify learning materials, adapt their levels, and make them optional or mandatory. This flexibility is high due to adopting 'dogme approach' to language teaching, as was previously mentioned. According to Neumeier (2005), blended learning always make the face-to-face activities obligatory unlike online activities. The degree of flexibility aims at making students take responsibility of their learning and preparing them to become autonomous learners.

Moreover, the teacher monitored the students' progression using the classroom time and also the online platform and gave in-class feedback for the two classes. The experimental class opinions were surveyed and they enjoyed having more opportunities for online electronic feedback.

The data analysis done for the two classes indicate that they were similar in terms of levels of writing proficiency. The teacher employed a blended learning model in which he gave electronic corrective feedback on the students' online entries and gave traditional written corrective feedback on the face-to-face mode activities. The teacher, the researcher in this study, used the face-to-face classroom time to enthuse students about the online part of the course, discussed the online tasks feedback and encouraged for more online work. Furthermore, differentiated activities and practices were used to meet students' individual differences and thus the level of integration varied according to students' language levels ability to accomplish tasks.

## Content Distribution

In the experimental class, the online learning materials relied on the activities that complemented and integrated one another. The study relied on teacher's notes and feedback after each class, (see Table 5) as well as observations done by other teaching staff members. Observations and feedback showed that at the beginning of the course, students lacked motivation towards completing certain activities that required much writing, especially the ones that did not assign marks. They also found difficulty in dealing with the school network and internet server that had many filters that slowed down their speed in their computer lab sessions. Therefore, the teacher had to depend on the homework time so as to accomplish the work and also to communicate with students more actively.

Overall, the teacher and students had a lot of flexibility to adapt the learning materials and content distribution when needed by negotiating the students' learning needs after lesson by considering the teacher's and students' face-to-face and online feedback.

## Teaching Methods

In a blended model planning teaching methodology within this environment must be
examined in order to verify three main types of impact: online learning materials, online instructor, and the face-to-face teacher (Neumeier 2005, p. 172). In this study the face-toface teacher is also the online instructor. He provides both online and classroom learning materials and selects the appropriate teaching methodology.

The teaching methodology for this blended model focused on developing activities that connect students to their daily life topics such as: car accidents, transportation means, weather and problems they faced every day. This connection helped to engage students in online and in-class discussions that aimed to work out current issues in the community such as: parking problems, pollution, traffic accidents and electric and hybrid cars. To sum up, the teacher adopted the communicative approach in teaching the two classes so as to engage them in a lifelike context that would encourage them to produce more writing.

On the other hand, and as a classroom management affair, 'edmodo' platform involves parents in monitoring what their children learn achieve since it provides them with codes through which they can access their children's accounts. Moreover, the researcher appreciates the use of "Class Chart", an extra tool/app added to this edmodo platform, as it helps monitor and manage the students' behaviour. This tool is practical for reinforcing good behaviour and controlling misbehaviour. Figure 7, below, shows how to manage and monitor student behaviour using the "Class Chart" App/Tool.


Figure 7: Class Chart (behaviour management)

## Interactional Patterns

Interactional patterns are types of communication that link individuals in a learning process
(Neumeier, 2005). Table 8 below, shows the types of interaction in the study divided between the face-to-face and online modes. These patterns were observed throughout the course time. The observations, Appendix 13 revealed that the most used types of interaction in both modes were teacher-student and student-student. Yet, the online student-student, pair and group, was increasing and the interaction improved to be more student-centred due to students' familiarity with work procedure and management of online accounts.

Table 8: Interactional Patterns

| Face-to-face Mode | Online Mode |
| :--- | :--- |
| student-student | Student-student |
| Student-teacher | Student-teacher |
| Student to student in group work | Student to website |



Figure 8: Student-teacher interaction individualized learning


Figure 9: Student-student Interaction

## Roles of Participants

By introducing a new approach of learning, participants' roles seems an important feature in the blended model that assigns new or different roles for teachers and student. The 'role', as mentioned by (Lam and Lawrence), can be defined as "what one does or is expected to do in a given environment" (Neumeier, 2005, p. 174) and Neumeier explains that participants in a blended environment tend to have a more various roles than in a one-mode environment. The observations and feedback conducted throughout the study showed that participants had various roles that differed according to course stages and teacher and students' familiarity. Moreover, the computer lab and online environments gave students more autonomous learning opportunities that increased by the time they got used to the model.

## Location

The Experimental group in this study is the 30 -student class who were exposed to the blended learning model for nine weeks. They worked in three different places that included classroom, school computer lab, and at home. In-class and computer lad lessons were essential for giving feedback on correcting errors, completing tasks and working out issues with student online accounts.

Student Questionnaires 1 and 2 investigated that students' opinions about learning English by activities that combine online and classroom face-to-face activities. The data analysis shows that more than half of students in the experimental class liked learning English in class as well online. In their comments, many students mentioned that the blended model helped them learn English better and they recommended it to other students.

## Research Question 2: Student Attitudes

The second research question investigated the students' attitudes towards the employing the blended learning model. Their responses were collected in Student Questionnaires 1 and 2 (Appendices $3 \& 4$ ). The two questionnaire are close-ended with a space at the end for comments and suggestions. They are translated into students' first language, Arabic, so as to get accurate responses for the study. They are in the form of 1:5 Likert scale as 1 refers to (strongly disagree) and 5 refers to (strongly agree). Data from the two student questionnaires were recorded and analysed by MS Excel and SPSS.

## Student Questionnaire 1 (Appendix 1):

This questionnaire consisted of six questions examining students' attitudes towards implementing the blended learning program. The Quantitative data, student' responses, were collected and recorded by MS Excel and converted into percentiles and were analysed by SPSS. Reliability of this questionnaire was tested and the Cronbach's alpha value was 0.812 to indicate a high reliability for the questionnaires' items. (Tables $9 \& 10$ and Appendix 14)

Table 9: Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| Cases | Valid | 30 | 100.0 |
|  | Excluded ${ }^{\mathrm{a}}$ | 0 | .0 |
|  | Total | 30 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

## Reliability Statistics

|  | Cronbach's <br> Alpha Based on <br> Standardized <br> Items | N of Items |
| ---: | ---: | ---: |
| .812 | .800 | 6 |

Table 10: Questionnaire 1 Reliability Test

The students' responses were recorded by MS Excel and converted into percentiles as shown in Table 10. According to the data in Tables $10 \& 11$ as well as Figures $10 \& 11$, the students showed highly positive attitudes towards the blended learning approach as the 'Agree' and 'Strongly Agree' responses represent 82 per cent of the total responses which indicates that students enjoyed learning by this approach.

|  | Table 11 | Likert Scale (\%) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Experimental Class (N=30) |  |  | $\begin{aligned} & 0 \\ & \vdots ゙ \\ & \stackrel{2}{0} \\ & 0 \end{aligned}$ | 苞 |  |
| 1 | I like learning in the class as well as online. | 3 | 0 | 13 | 30 | 57 |


| 2 | Learning online and in class helps me <br> learn English better. | 3 | 3 | 13 | 27 | 57 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | I like the classroom activities and the <br> online activities as well. | 0 | 7 | 10 | 47 | 37 |
| 4 | English language learning should <br> include online activities and also <br> classroom activities. | 3 | 3 | 13 | 37 | 43 |
| 5 | I advise other learners to learn by the <br> model that have classroom and online <br> activities | 3 | 0 | 17 | 30 | 53 |
| 6 | I like to learn English again in course <br> that combines classroom and online <br> activities. | 7 | 3 | 10 | 27 | 47 |
|  | Mean | 3 | 3 | 13 | 33 | 49 |
|  | 2 | 3 | 3 | 8 | 8 |  |

(Table 11) Student Questionnaire 1: Students' attitudes towards the blend learning model


Figure 10: Questionnaire 1, \% of Student Responses


Figure 11: Questionnaire $1 \%$ of Student Responses

## Student Questionnaire 2

This questionnaire investigates the students' attitudes towards the online learning mode. It consists of 4 questions using the Likert Scale 1:5. (Table 12) shows how student responses were recorded, using MS Excel, in percentiles so as to calculate the means and standard deviations for each item. The questionnaire's reliability was tested using SPSS and the Cronbach's alpha value was 0.844 which is a high reliability value for this questionnaire. (Tables $13 \& 14$ and Appendix 15).

Table 13: Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| Cases | Valid | 30 | 100.0 |
|  | Excluded $^{\mathrm{a}}$ | 0 | .0 |
|  | Total | 30 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Table 14: Reliability Statistics

| Cronbach's <br> Alpha | Cronbach's <br> Alpha Based on <br> Standardized <br> Items | N of Items |
| ---: | ---: | ---: |
| .844 | .851 | 4 |

The students' responses were analysed by MS Excel and showed that around $80 \%$ of students strongly agreed and agreed that online activities encouraged them to write more, identify spelling and punctuation mistakes and get more feedback (Questions 2, 3 and 4). Also, 56\% of them had the same expresses their agreement with online activities helped them improve their writing.

On average, the majority of students, about $80 \%$ of the experimental class population, agreed that online activities helped them in: practicing more writing, identifying punctuation and spelling mistakes and finally getting more teacher's feedback. Moreover, $60 \%$ of them agreed that online activities helped them improve their writing skills and get more teacher feedback. Qualitatively, a student commented: 'online activates were useful and I liked way the teacher gave feedback'. Another student added that "it, the online mode, reminds us of the homework and it is also interesting and useful". A third student said that he felt that his writing on computer became better and he advised other students to study online.

However, a student argued that it was not useful as his parents did not allow him to use the computer at home. Another student claimed that it would be better to include the online activities in school lessons only.


Table 12: Student Questionnaire 2 Mean and Standard Deviation of Student Responses


Figure 12: Percentages of \% of Student Responses


Figure 13: Means of Student Responses

## Research Question 3:

The third research question investigates whether there is a significant difference/improvement in students' writing scores between the experimental classes that used blended learning and the control class that learned using traditional classroom instruction. To collect the data from the experimental and control classes, the researcher administered a pre-test prior to the course and a post-test at the end. The scores of the two tests were recorded and analysed by MS Excel and SPSS.

In a relevant study, Al-Jarf (2004) examined the effectiveness of blended learning on improving students' scores in EFL to find if there is a significant difference in achievement between students learned writing using the traditional face-to-face classroom instruction and those students who learned via a blended model that mixed traditional classroom instruction and online instruction. The sample in this study is 113 students learning EFL in a higher education college in Saudi Arabia. The students had a pre-test before exposing them to a
traditional EFL learning course of twelve weeks, while the experimental group learned via a blend of traditional and online modes of instruction. The experimental group used an online discussion board/blog to post comments, replies, and assignments such as: short paragraphs, stories, or poems. The course provided students with learning materials and resources related to their textbook themes on websites like "Yahoo! Movies" and "WebMD" and they used Microsoft Word application to submit their writing entries. Finally, the students sit a post-test at the end of the 12 -week course and it was found that the experimental group that learned via blended learning, scores were significantly higher than the control group.

To answer the third research question, the study sets three variables which include: a blended learning course, students' writing level and writing skills improvement. The researcher exposes the experimental group to learning by blended learning approach whereas the control group was exposed to learning by the traditional face-to-face classroom instruction only. The experimental and control groups were taught by the same ESL teacher for nine weeks.

## Sample

The sample in this study is 60 students divided into two groups, experimental and control, and each one contains 30 students. Table 13 shows the sample distribution between the two groups

| Sample Size | Sex | Experimental | Control |
| :---: | :--- | :---: | :---: |
| 60 | Boys | $\mathrm{N}=30$ | $\mathrm{~N}=30$ |

Table 15: Sample

The two classes involved in this study are grade nine students aged 15-16 taught by the same teacher who is the researcher in this study. The two groups were two grade nine sections who were randomly selected with a variety of EFL proficiency levels. The groups were exposed to a pre-test to measure their abilities in writing a narrative text type.

## Variables

The study has two types of variables:

1. The independent variable (blended learning course)
2. The dependent variable (students' English writing scores)

The data of the students' pieces of writing in the two groups were recorded and analysed by MS Excel and SPSS so as to compare the results and to find whether there were significant differences between the group that used the blended learning approach and the other group that used the face-to-face learning. The table below shows the mean scores for the total and each component in the tests.

|  | Pre test |  |  |  |  |  | Post Test |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{N}=30$ |  | $\begin{aligned} & \text { n } \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0.0 \\ & 0 \end{aligned}$ |  | 星 |  | n 0 0 0 0 0.0 0.0 |  |  |  |  |
| Mean | Experimental | 2.9 | 2.2 | 2.2 | 2.7 | 9.4 | 3.1 | 2.5 | 2.6 | 3.2 | 11.3 |
|  | Control | 2.8 | 2.1 | 2.4 | 2.7 | 9.87 | 3.2 | 2.3 | 2.6 | 3.3 | 11.4 |
| StDev | Experimental | 0.7 | 0.7 | 0.5 | 0.8 | 2.75 | 0.8 | 0.7 | 0.8 | 0.8 | 2.78 |
|  | Control | 0.7 | 0.55 | 0.6 | 0.7 | 2.42 | 0.6 | 0.6 | 0.68 | 0.65 | 2.03 |

Table 16: Experimental and Control Classes Test Scores Mean and STDEV

The study sets four hypotheses to evaluate the differences in the performances for each test and each class. They aim to assess the progression and regression for each class and also to compare the scores of the post-test of the two classes.

## The first hypothesis:

The first hypothesis compares the pre-test scores of the two classes. It assumes that there is no significant difference between the pre-test scores of both the control and the experimental classes if the p-value is greater than or equals ( 0.05 ). For this purpose, an independent T-test was conducted using SPSS software which showed that the significant value was 0.48 . (See Tables 17 and 18). This result indicates that there was no significant difference between the two classes in the pre-test test which means the two classes started at similar levels of writing proficiency no differences that would affect their progression or regression.

Table 17: Group Statistics

|  | Class | N | Mean | Std. Deviation | Std. Error Mean |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Pre-Pre | Expm | 30 | 9.4000 | 2.74929 | .50195 |
|  | Cntrl | 30 | 9.8667 | 2.41737 | .44135 |

Table 18: Independent Samples Test

|  | Levene's <br> Test for <br> Equality of <br> Variances | t-test for Equality of Means |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F | Sig. | t | df | Sig. (2- <br> tailed) |  | Std. <br> Error | 95\% Confidence Interval <br> of the Difference |


|  |  |  |  |  |  | Mean <br> Differen <br> ce | Differe <br> nce | Lower | Upper |
| :---: | :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Pre-PreEqual variances <br> assumed <br> Equal variances <br> not assumed | .703 | .405 | -.698 | 58 | .488 | -.47 | .66839 | -1.80459 | .87126 |

## The second hypothesis:

The second hypothesis tests the difference between two classes' performances in the post-test. It assumes that there is no significant difference between the two classes' scores in the post-test if the significance value is greater than or equals (0.05). To test this hypothesis, an independent Ttest was conducted and it showed that the two classes did have similar as the post-test was 0.833 which is greater than the Null hypothesis ( 0.05 ). See Tables $17 \& 18$.

Table 17: Group Statistics

|  | Class | N | Mean | Std. Deviation | Std. Error Mean |
| :--- | :--- | ---: | :--- | ---: | ---: |
| Post-Post | Expm | 30 | 11.2667 | 2.77841 | .50727 |
|  | Cntrl | 30 | 11.4000 | 2.02740 | .37015 |

Table 18: Independent Samples Test

|  | Levene's Test for Equality of Variances |  | t-test for Equality of Means |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | F | Sig. | t | df | Sig. (2tailed) | Mean <br> Difference | Std. Error <br> Difference | 95\% Confidence <br> Interval of the Difference |  |
|  |  |  |  |  |  |  |  | Lower | Upper |
| Equal variances assumed | 6.406 | . 014 |  | 58 | . 833 | -. 13333 | . 62796 | -1.39033 | 1.12366 |
| Equal variances not assumed |  |  | -. 212 | 53.061 | . 833 | -. 13333 | . 62796 | -1.39282 | 1.12615 |

Conclusion: there is no significant difference between the two classes' scores.

## The third hypothesis:

This hypothesis assumes that there is no significant improvement in the experimental class' pretest and post-test scores if the significance value is 0.05 or greater. To compare the experimental class' pre and post test scores, a paired T-test was conducted and the data analysis shows that there was a significant improvement in students' scores in favour of the post-test as the significance value was 0.001 , i.e. less than 0.05 . Thus, the experimental class did significantly improve. See Tables 19, 20 and 21.

Table 19: Paired Samples Statistics

| Experimental Class | Mean | N | Std. Deviation | Std. Error Mean |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pair 1 | Pre | 9.4 | 30 | 2.75 | .50 |
|  | Post | 11.3 | 30 | 2.78 | .51 |

Table 20: Paired Samples Correlations

| Experimental Class | N | Correlation | Sig. |
| :--- | :--- | :--- | :--- |
| Pair 1 Pre \& Post | 30 | .473 | .008 |

## Table 21: Paired Samples Test

| Experimental <br> Class | Paired Differences |  |  |  |  | d |  | Sig. (2- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean | std. <br> Deviation | Std. Error Mean | 95\% Confidence Interval of the Difference |  |  |  |  |
|  |  |  |  | Lower | Upper |  |  |  |
| Pair 1 $\begin{array}{ll}\text { Pre - } \\ & \text { Post }\end{array}$ | -1.86667 | 2.83735 | . 51803 | 2.92615 | -. 80718 | $3.60$ | 29 | . 001 |

Conclusion: there is a statistically significant difference/improvement in students' scores as the pvalue is less than 0.05 .

## The fourth hypothesis

This hypothesis sets no significant difference between the control class pre and post test scores if the significance value is 0.05 or greater. To test this hypothesis, a paired T-test Score was conducted and the data shows that there was a significance difference in scores in favor of the post-test and thus the students' writing did significantly improve. See Tables 22, 23 \& 24 .

Table 22: Paired Samples Statistics

|  |  | Mean | N | Std. Deviation | Std. Error Mean |
| ---: | :--- | ---: | ---: | ---: | ---: |
| Pair 1 | CntrPre | 9.8667 | 30 | 2.41737 | .44135 |
|  | CntrPst | 11.4000 |  | 30 | 2.02740 |

Table 23: Paired Samples Correlations

|  | N | Correlation | Sig. |  |
| :--- | :--- | ---: | ---: | ---: |
| Pair 1 | CntrPre \& CntrPst | 30 | .722 | .000 |

Table 24: Paired Samples Test

|  | Paired Differences |  |  |  |  | t | df | Sig. <br> (2- <br> tailed) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mean | Std. <br> Deviation | Std. Error Mean | 95\% Confidence Interval of the Difference |  |  |  |  |
|  |  |  |  | Lower | Upper |  |  |  |
| Pair 1 CntrPre - <br>  <br>  <br> CntrPst | -1.53333 | 1.69651 | . 30974 | -2.16682 | -. 89984 | -4.950 | 29 | . 000 |

To conclude, the significance value was less than 0.05 ( 0.000 ), which indicates that the control class did significantly improve

## CHAPTER 4: FINDINGS

This gives a summary of the study findings and reviews them by referring to the research questions. The first research question investigated the description of the blended learning model used in the study. Then, the second research question focused on students' attitudes towards the blended. Finally, the study aimed to find whether blended learning had a significant improvement in students' writing skills. The participants in this study were 60 male students aged 15-16 years learning ESL at a public school in an Arab country that taught school subjects in Arabic and English.

## Description of the Blended Model

The first research question investigated how the blended learning was designed and used and how the component of the blend, online and face-to-face, were integrated. The main framework used to design and describe the blended model in the study is suggested by Neumeier (2005).

The experimental class consists of the face-to-face and online modes. The time assigned for the face-to-face mode ranges between $65-75 \%$ of the learning-teaching time whereas the time assigned for the online mode is $25-35 \%$. This time distribution is affected by the amount of homework students have for each day. However, more time is assigned for individual students depending on their progression/needs either in class or online. Moreover, the teacher, when needed, used the school computer labs to have more lessons focused on working out technical issues or giving collective and general feedbacks.

The online learning materials were designed to complement and integrate the face-to-face mode so students and teacher can connect the two modes and the teacher can reinforce this integration by giving feedback on students' work by referring to their common errors and mistakes during classroom time.

## Student Attitudes

The second research question investigated the attitudes of students towards using blended learning in learning ES/EFL. The data were collected by administering two student questionnaires to the experimental group and they showed that the students had positive attitudes towards the blended learning model.

In general the data analysis show that the experimental group students agreed that the blended learning model helped them learn English better. According to the questionnaires, around 80 per cent of the experimental class liked the blended model. Moreover, they also showed positive attitudes towards adding similar online activities to any future English lessons and they mentioned that they would recommend the course to their peers. These results are similar to the ones found in a number of empirical studies in various non-English speaking countries, such as in (Murday et al. 2008), (Scida and Saury 2006), (Stracke 2007), and (Ushida 2005) which refer to learners' positive attitudes towards the blended learning approach.

## Effectiveness in improving L2 Writing

The third research question investigated the effect of blended learning approach on improving students' writing levels in writing a narrative text type. The data analysis compared the outcomes of each class and compared the outcomes of both classes. It indicated that the experimental group
that learned by a blended learning model did have a statistically significant improvement in their writings (Table 26). This result is similar to studies mentioned in: Yoon and Lee (2010) and AlJarf (2004) which indicated a significant improvement in students' L2 writing skills. However, when comparing the results of ppst-test of classes, it was found that there were no statistical differences which indicates that the results of both classes were similar. This conclusion is similar to the findings of studies such as: (Barr, Leakey, \& Ranchoux, 2005; Chenoweth \& Murday, 2003; Chenoweth, Ushida, \& Murday, 2006; Echavez-Solano, 2003; Green \& Youngs, 2001; Scida \& Scaury, 2006) that compared results of blended language learning with traditional classroom learning and found no significant differences.

Table 25: Independent Samples Test

|  | Levene's Test for Equality of Variances |  | t-test for Equality of Means |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | F |  | t | df | $\begin{aligned} & \text { Sig. (2- } \\ & \text { tailed) } \end{aligned}$ | Mean Difference | Std. Error Difference | 95\% Confidence Interval of the Difference |  |
|  |  |  |  |  |  |  |  | Lower | Upper |
| Equal variances assumed | 6.406 | 014 | -. 212 | 58 | 833 | . 13333 | 62796 | -1.39033 | 1.12366 |
| Post-Post Equal variances not assumed |  |  | $-.212$ | 53.061 | . 833 | -. 13333 | 62796 | -1.39282 | 1.12615 |

## Limitations

Although the study attempted to cover all criteria of blended learning model design and procedure, it did not involve many classes and many year level. So, future studies should consider involving more classes of different years so the results of the study can be generalized over a wider category of students.

Also, the study aimed at describing a blended learning design and how it works. It did collect many quantitative and qualitative data for this purpose was conducted over two trimesters, nine weeks. So, future studies may focus on: engaging more teachers and students, investigating teachers' attitudes, student and teacher interviews, and doing a pilot study so as to identify infrastructure shortcomings.

Moreover, online access time spent by each student was not recorded, especially the homework time. Although this time recording would not change time assigned for each mode, it could contribute to assessing effect of access time and improvement in performance. So, future studies should consider this element so as to give blended learning models the ability to assess the effect of each mode.

Finally, the study included one experimental group that was chosen because of its higher motivation although a lower motivation class would provide useful feedback that contribute to improving the model design and its practicality. Therefore, further studies can include two or more experimental classes in order to compare their opinions and performances which gives studies more credibility and reliability.

## Pedagogical Implication

This study gives a description of a blended language learning model following the framework found in (Neumeier's 2005). This description provided details about how blended models are constructed and how they work. It also describes pedagogy, learning materials, teacher's role, learner's role and time distribution. So, similar models can be assessed according to the same framework and procedure provided in this study. Also, interviews represents the weakest part of the data collected for the first research question and any further studies should include more interviews for teachers, students and administrators so as to provide details about institute vision and support, change in teachers' pedagogical behaviour over the time. Moreover, this dissertation is based upon following a model implemented by one teacher and therefore, future studies should include more teachers who teach different years so as to assess the institutional performance and generalize the findings.

The observations show that differentiated tasks and individualized feedback were of the biggest advantages of the blended model and this result is similar to what was mentioned by the participants in the studies of (Echavez-Solano 2003) and (Scida and Saury 2006). Moreover, it seemed, from students' comments and observations, that blended learning approach was a solution that worked out the issue of teaching and learning without textbooks.

Although the results of traditional and blended learning were similar and also many students complained about technical problems related to computers, software updates and online user accounts, the open-questionnaires show that the students' responses indicate satisfaction and ability to deal with the approach which is similar to the studies mentioned in: (Adair-Hauck et al., 2000; Barr et al., 2005; Chenoweth et al. 2006; Echavez-Solano, 2003).

To conclude, blended learning approach is an effective solution to engage young language in and after school time which maximizes learning hours and opportunities. It also gives more options and opportunities for individualized and autonomous learning.

## CHAPTER 5: CONCLUSION

This dissertation adds to research on blended language learning and to second language acquisition. It describes a blended language learning model and its components, surveys adolescent second language learners' attitudes towards the approach and examines its effectiveness of on improving students' writing skills. The study uses a mixed method research design to collect both qualitative and quantitative data so as to describe, explore and assess a blended model according to the criteria mentioned by (Neumeier, 2005) and other researchers. The study gives description of how a blended language learning model is constructed and how it works. The blended model proved its effectiveness in creating a motivating language learning environment that gained learners' positive attitudes and made a statistically significant improvement in students' writing skills. Therefore, it has pedagogical implications for ESL teachers especially those who teach adolescent L2 learners aged 12-16.

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## Appendices

## Appendix 1: Questionnaire 1

Student name (Optional)
Grade Nine Section (.....)
Date...../....../........

This questionnaire is for students in grade nine to survey their opinions about the use of blended learning that combines the classroom face-to-face learning and the online lessons and uses www.edmodo.com to complement the classroom learning.

|  | Questionnaire 1 Questions | $\begin{aligned} & \text { Strongly } \\ & \text { Disagree } \\ & \text { لا أو افق أبداً } \end{aligned}$ | Disagree <br> لا أو افق | Not Sure <br> لست متأكداً | Agree <br> أو افق | Strongly <br> Agree <br> أو افق بشدة |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | I like learning in the class as well as online. <br> ألانترنت أن أتعلم في الصف و أيضاً على |  |  |  |  |  |
| 2 | Learning online and in class helps me learn English better. <br> النتليم في الصف مع النترنت يساعني في تعلم الانجليزية بشكل أفضل |  |  |  |  |  |
| 3 | I like the classroom activities and the online activities as well. أحب الأنشطة الصفية و كذلك الأنشطة التي أتعلمها على الانترنت |  |  |  |  |  |
| 4 | English language learning should include online activities and also classroom activities. تعلم اللغة الانجليزية لا بد أن يحتوي على أنشطة على الانترنت بالاضافة إلى |  |  |  |  |  |
| 5 | I advise other learners to learn by the model that have classroom and online activities. <br> أنصح الطلاب الآخرين بأن يتعلموا <br> باستخدام الطريقة التي تستخدم دروس <br> الصف و أيضا الانترنت |  |  |  |  |  |
| 6 | I like to learn English again in course that combines classroom and online activities. <br> أحب أن أتعلم مرة أخرى باستخدام الأسلوب الالي يدمج اللروس الصفية مع دروس الانترنت |  |  |  |  |  |

Questionnaire 3: Students' attitudes towards the blended learning model
Comments

## Appendix 2: Questionnaire 1

Student name $\qquad$
Class..../.....
Date $\qquad$

This questionnaire is for students in grade nine to survey their opinions about the use of blended learning that combines the classroom face-to-face learning and the online lessons that complement the classroom learning.

Questionnaire 3: Students' attitudes towards the blended learning model

|  | Questionnaire 3 questions | $\begin{array}{\|l\|} \hline \text { Strongly } \\ \text { Disagree } \end{array}$ | Disagree لا أو افق | Not Sure <br> لست متأكداً | Agree أو افق | Strongly <br> Agree |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Online activities help improve my writing. |  |  |  |  |  |
| 2 | Online activities help me write more. |  |  |  |  |  |
| 3 | Online activities help me identify punctuation and spelling mistakes. |  |  |  |  |  |
| 4 | Online activities help me get more feedbacks on my writings |  |  |  |  |  |

Comments
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Appendix 3: Questionnaire 1 (Student Responses)

Student name (Optional)..
Grade Nine Section


Date...../...............

This questionnaire is for students in grade nine to survey their opinions about the use of blended learning that combines the classroom face-to-face learning and the online lessons and uses www.edmodo.com to complement the classroom learning.
Questionnaire : Students' attitudes towards the blended learning model


Comments:
... I ....like the teacher.....and the the class.....ngulish..... .lesson is ver.........crol...anice and aws.....................like .that the teacher gives.......................eedback and....... ...teaches ....on......internet to...........

Appendix 4: Questionnaire 2 (Student Responses)

Student name...
Class.

Date.19.9.3...1.2.1.4

This questionnaire is for students in grade nine to survey their opinions about the use of blended learning that combines the classroom face-to-face learning and the online lessons that complement the classroom learning.

Questionnaire : Students' attitudes towards the blended learning model


Comments
that the online is very hasefuland

Hepeful and it's also feel back
their information: : $\rightarrow$

Appendix 5: Questionnaire 1 Data Analysis

|  | Experimental Class |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Questionnaire No. 1 Questions |  | Likert Scale 1:5 |  |  |  |  |  |  |
|  |  | N |  |  | $\begin{aligned} & 0 \\ & \vdots \\ & \tilde{U} \\ & \stackrel{0}{2} \end{aligned}$ | $\begin{aligned} & \text { む } \\ & \stackrel{y}{000} \end{aligned}$ |  | Mea n | $\begin{gathered} \text { St } \\ \text { Dev } \end{gathered}$ |
| 1 | I like learning in the class as well as online. | 30 | 1 | 0 | 4 | 9 | 17 | $\begin{gathered} \hline 10.1 \\ 7 \end{gathered}$ | $\begin{gathered} \hline 6.97 \\ 9 \end{gathered}$ |
| 2 | Learning online and in class helps me learn English better. | 30 | 1 | 1 | 4 | 8 | 17 | $\begin{gathered} \hline 10.1 \\ 7 \end{gathered}$ | $\begin{gathered} 6.68 \\ 6 \end{gathered}$ |
| 3 | I like the classroom activities and the online activities as well. | 30 | 0 | 2 | 3 | 14 | 11 | $\begin{gathered} \hline 10.0 \\ 0 \end{gathered}$ | $\begin{gathered} 6.12 \\ 4 \end{gathered}$ |
| 4 | English language learning should include online activities and also classroom activities. | 30 | 1 | 1 | 4 | 11 | 13 | $\begin{gathered} 10.0 \\ 0 \end{gathered}$ | $\begin{gathered} 5.65 \\ 7 \end{gathered}$ |
| 5 | I advise other learners to learn by the model that have classroom and online activities | 30 | 1 | 0 | 5 | 9 | 16 | $\begin{gathered} 10.1 \\ 7 \end{gathered}$ | $\begin{gathered} 6.53 \\ 5 \end{gathered}$ |
| 6 | I like to learn English again in course that combines classroom and online activities. | 30 | 2 | 1 | 3 | 8 | 14 | 9.67 | $\begin{gathered} 5.41 \\ 3 \end{gathered}$ |

Questionnaire 1: \% of Student Responses



| 2 | Learning online and in class helps me learn English better. | Question <br> 2 | 3 | 3 | 13 | 27 | 57 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | I like the classroom activities and the online activities as well. | Question 3 | 0 | 7 | 10 | 47 | 37 |
| 4 | English language learning should include online activities and also classroom activities. | Question <br> 4 | 3 | 3 | 13 | 37 | 43 |
| 5 | I advise other learners to learn by the model that have classroom and online activities | Question 5 | 3 | 0 | 17 | 30 | 53 |
| 6 | I like to learn English again in course that combines classroom and online activities. | Question 6 | 7 | 3 | 10 | 27 | 47 |
|  |  |  |  |  |  |  |  |
|  |  |  |  | $\begin{aligned} & \mathbb{Q} \\ & \stackrel{y}{40} \\ & \stackrel{0}{0} \\ & \hline 0 \end{aligned}$ |  |  |  |
|  | Mean |  | 3 | 3 | 13 | 33 | 49 |
|  | StDev |  | 2 | 3 | 3 | 8 | 8 |

\% of Student Responses


## Reliability

Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| Cases | Valid | 5 | 100.0 |
|  | Excluded $^{\text {a }}$ | 0 | 0.0 |
|  | Total | 5 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

## Reliability Statistics

| Cronbach's Alpha | N of Items |
| ---: | ---: |
| .986 |  |

Appendix 6: Questionnaire 2 Data Analysis

|  |  |  |  | $\begin{aligned} & \mathbb{N} \\ & \stackrel{U}{0.0} \\ & \stackrel{H}{0} \\ & \ddot{0} \end{aligned}$ | $\begin{aligned} & \cong \\ & \vdots \\ & \vdots \\ & \vdots \\ & Z \end{aligned}$ | $\stackrel{\text { ¢ }}{\stackrel{\text { ¢ }}{00}}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Online activities help improve my writing. | Question <br> 1 | 0 | 10 | 30 | 26 | 33 |
| 2 | Online activities help me write more. | Question $2$ | 0 | 10 | 10 | 50 | 30 |
| 3 | Online activities help me identify punctuation and spelling mistakes. | Question <br> 3 | 0 | 7 | 13 | 33 | 47 |
| 4 | Online activities help me get more feedbacks on my writings | Question <br> 4 | 0 | 10 | 10 | 43 | 37 |
| Mean |  |  | 0 | 9 | 16 | 38 | 37 |
| StDev |  |  | 0 | 2 | 10 | 11 | 7 |
|  |  |  |  |  |  |  |  |
|  |  |  |  | $\begin{aligned} & \mathbb{Q} \\ & \stackrel{\omega}{00} .0 \\ & \stackrel{0}{0} \end{aligned}$ | $\begin{aligned} & \cong \\ & \vdots \\ & \vdots \\ & \stackrel{0}{2} \end{aligned}$ | $\stackrel{\text { © }}{\substack{\text { © }}}$ |  |
| Mean |  |  | 0 | 10 | 15 | 33 | 32 |
| StDev |  |  | 0 | 3.37 | 7.851 | 13.9 | 13.3 |




one day have a note boy in the school and have a good boy the note boy go to the good boy and said for ham come to make abroblem withe me its fun and the good boy said: really the note boy said: yes really and he go with the note boy and make broblem with them and the prince ble very hungry and said for all teacher bring the tow boy Ahmed and Khalid.
the princeble said why DiD you make that this is very bad you note boy he said:- the note boy:-1"am sorry prineeble the princtleno liam note easy to said sorry I will call your father becouse all Day's make problem and said to the good boy the broblem its fun this is bigbroblem and the princeble call his father and the princeble said for hem your sun male abroblem in the school and the father he came to school badmood and Ahmed he see her father bad mod when he make abroblem and he said withe hor self my father bad when me make broblem 'no!! I will agood boy to be My father happy.
$\qquad$ father very happy, Ahmed good boy and sTudy Don't mule broblem.
once avon time there were Two best friends there name Khalid and Hamed, khalid a strong boy and brave he not afraid from any thing, Homed is afraid from everything even the cat.
one day they tell there percents to go to the desert there perents said "Ok" Khalid and hamed became excited to go to the desert a lone. khalid's father and khalid and Homed arrived to the desert, they get off from the Cav and khalid's father want to home, Then set in a high place in the desert, they didint have a light, after few seconds, khalid saw a snake he was brave and he didn't ran away but Homed were afraid and ran away he want to tell khalid's father. khalid still fighting with the snake, the snake atc khalid's leg, Khalid'steg get a more blood he didn't quick he complete fighting, aster that Hame came back to khatid be saw khalid from the pine that got, Hawed saw a knief he gave it khalid, khalid put the knies in the suake and the snalse died, Aster this, Khalid's father arrived to the desert he saw down body have blood he took him to the hospitel khalid still crying.
finally. Khalid took the best medisen and became better than before and tine tell in ir
(0) ace upon a time there Were two boys na med is inhaled and his friend Ali. They Went to the desert by the car to camped, when they Went to the desert Ali Was bored he Wanted to slecpinge

After that alio and khalid, khalid gett-off and he heard a strange sound When he heard the sound he Was afraid and scary.

After that, khalid he was scary and afraid and he saw a foxes around $h i m$ and he want topirked the guns to killed the -poxes he didn'twent to the camels

Suddenly Ali get off and he saw ichalid, tihalid said to a li priced the guns to killed the foxesound Khalid was afraid from the foxes, and he think the foxes ate him.

Acurthat ali picked the guns and he killed the fores and ichalid was angry from ali because me were sleeping and ichalid said do not steep Ali said ole and he dido sleep.

After that knaild saidfere all We weill went to our homes because the desert scary. -and so so dangerous.

After that, They Went to our homes and knoll Said we well sided went to the desert second times

And khalid And Ali were safety from any things hand the desert is dangerous for us.

And its so dangerous ear us and it wow an advent lure trip
$\qquad$
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$\square$

Appendix 9: Experimental Class Pre-test


Que summer day, Ahmed was playing football with hisfriends Al: and Omar like eveytyay. But they become bored because they Play football everyday. So they Started to think about something new to do: in the summer. After some minutes they decided to soto the desert for camping.

In the next day. Ahmed with his friends went to the shop to bay anythings they heed forthe trip like tent, foods and other In the following day they was ready so they went to the desert, they $P$ layed and spent a sood time. But then the hight comes and every thing becomes dark, So they stoped playing, Ali and omar solent to make some food, but Ahmed was tired sone goes to take some reit. Suddenly Ahmed heared a voice of camel comes from faraway, So he decided to 8 so and sea the camel. Whence went faraway frome the teut he dight find anything. So he wants to come backs, B hit he forgot the way ne comes from, and every thing was $d$ ark, So he lost in a bis desert af the night. After some minutes Ali and Omar went to sea Ahmad but sthey didut find him, they started shouting but Ahmed didnt hear anything, But Omar wag Smart so he decided to make a bis fire then maybe Ahmed can see them.

lost in am island)
One morning a group of students decided to do their research at country beach. When then arrived to the beach everyone of them checked that if then forgot something e then didn't so they went to the wot er and started seerching about their topic. here problems ha d began.

When then were in the water looking for of animals to take pictures it them. In that time the weather Begun to change, turning from sung, beautiful and reloxful to a lark, cold an scary. It started raining -end the wind was too strong, then had to return to the beach but they couldn't because of the vein. They couldn't see anything it was too dark then all of them lost their concisions.

In the other does then woke up and found theirselvec and an island in the middle of a sos they wore shocked. the grows tried find the boat that they went with hut then only found wreckage of it, then wore diopointe2, afraid and starving. They tried to pick up some food but they found nothing. Acetually they found some animal's like snakes, lizards, bircisete. they bunted birds and eat it uncomfortably with hardness.

Finally after took two weeks a his ship was moving towards the island, they took them ant solved them.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Appendix 11: Narrative Writing Rubric



## Uses language tools

Uses some rich, precise words
and/or phrases and text type language features

## demonstrating

 control of tense most of the timeSpelling


* Please note. Formatting paragraphs does not mean an indentation. It means the way the ideas are structured within the paragraphs.

Appendix 12: Previous Year +Pre + Post Test Scores

| Experimental Class Tests |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Writing a Narrative Text |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Pre Test Scores |  |  |  |  | Post Test Scores |  |  |  |  |
|  |  |  |  | $n$ 0 0 0 0 0 0 0 0 0 0 0 | $\begin{aligned} & \text { مon } \\ & \stackrel{\underline{\overline{0}}}{0} \\ & \stackrel{0}{n} \end{aligned}$ |  |  |  |  | $\begin{aligned} & \stackrel{00}{\stackrel{1}{0}} \\ & \overline{\overline{0}} \\ & \text { in } \end{aligned}$ |  |
| 1 | 13 | 4 | 3 | 3 | 4 | 14 | 4 | 3 | 4 | 4 | 15 |
| 2 | 11 | 3 | 2 | 2 | 3 | 10 | 3 | 3 | 2 | 4 | 12 |
| 3 | 10 | 2 | 2 | 2 | 2 | 8 | 4 | 3 | 3 | 4 | 14 |
| 4 | 11 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 |
| 5 | 15 | 3 | 2 | 2 | 3 | 10 | 4 | 3 | 3 | 4 | 14 |
| 6 | 15 | 3 | 2 | 2 | 3 | 10 | 3 | 2 | 2 | 3 | 10 |
| 7 | 13 | 3 | 2 | 2 | 3 | 10 | 3 | 3 | 2 | 2 | 10 |
| 8 | 13 | 3 | 3 | 3 | 3 | 12 | 3 | 3 | 3 | 4 | 13 |
| 9 | 13 | 3 | 3 | 3 | 4 | 13 | 4 | 4 | 3 | 4 | 15 |
| 10 | 12 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 |
| 11 | 10 | 2 | 2 | 2 | 1 | 7 | 2 | 2 | 2 | 2 | 8 |
| 12 | 9 | 2 | 2 | 2 | 2 | 8 | 3 | 2 | 2 | 3 | 10 |
| 13 | 16 | 4 | 4 | 3 | 4 | 15 | 4 | 4 | 4 | 4 | 16 |
| 14 | 11 | 3 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 8 |
| 15 | 13 | 3 | 3 | 2 | 3 | 11 | 4 | 3 | 4 | 4 | 15 |
| 16 | 8 | 2 | 1 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 8 |
| 17 | 12 | 3 | 2 | 2 | 2 | 9 | 3 | 2 | 2 | 2 | 9 |
| 18 | 9 | 2 | 2 | 2 | 2 | 8 | 3 | 2 | 2 | 3 | 10 |
| 19 | 11 | 3 | 2 | 2 | 3 | 10 | 2 | 2 | 2 | 3 | 9 |
| 20 | 12 | 2 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 12 |
| 21 | 11 | 2 | 1 | 2 | 2 | 7 | 2 | 1 | 2 | 2 | 7 |
| 22 | 13 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 9 |
| 23 | 8 | 2 | 1 | 2 | 2 | 7 | 2 | 2 | 2 | 4 | 10 |
| 24 | 13 | 4 | 3 | 3 | 3 | 13 | 4 | 3 | 4 | 4 | 15 |
| 25 | 16 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 16 |


| 26 | 12 |  | 3 | 2 | 2 | 3 | 10 |  | 3 | 2 | 2 | 3 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 12 |  | 4 | 3 | 2 | 3 | 12 |  | 3 | 2 | 2 | 3 | 10 |
| 28 | 10 |  | 3 | 2 | 2 | 4 | 11 |  | 4 | 2 | 3 | 4 | 13 |
| 29 | 11 |  | 3 | 3 | 2 | 3 | 11 |  | 4 | 2 | 3 | 4 | 13 |
| 30 | 9 |  | 4 | 2 | 2 | 2 | 10 |  | 4 | 2 | 2 | 3 | 11 |
| Mean | 11.8 |  | 2.9 | 2.2 | 2.2 | 2.7 | 9.4 |  | 3.1 | 2.5 | 2.6 | 3.2 | 11.3 |
| StDev | 2.1 |  | 0.7 | 0.7 | 0.5 | 0.8 | 2.7 |  | 0.8 | 0.7 | 0.8 | 0.8 | 2.8 |
|  | Pre test |  |  |  |  |  |  |  | Post Test |  |  |  |  |
|  |  |  |  |  | $n$ 0 0 0 0 0 0 0 0 0 $\pi$ 0 0 | $\begin{aligned} & \stackrel{\infty}{\stackrel{0}{0}} \\ & \overline{\overline{0}} \\ & \text { in } \end{aligned}$ |  |  |  |  | $\begin{aligned} & \text { n } \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 00 \\ & 0 \\ & \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |
| $\mathrm{N}=$ |  |  |  |  |  |  | 30 |  |  |  |  |  | 30 |
| Mean | Expm |  | 2.9 | 2.2 | 2.2 | 2.7 | 9.4 |  | 3.1 | 2.5 | 2.6 | 3.2 | 11.3 |
|  | Contrl |  | 2.8 | 2.1 | 2.4 | 2.7 | 9.87 |  | 3.2 | 2.3 | 2.6 | 3.3 | 11.4 |
| StDev | Expm |  | 0.7 | 0.7 | 0.5 | 0.8 | 2.75 |  | 0.8 | 0.7 | 0.8 | 0.8 | 2.78 |
|  | Contrl |  | 0.7 | 0.55 | 0.6 | 0.7 | 2.42 |  | 0.6 | 0.6 | 0.68 | 0.65 | 2.03 |
| Control Class Tests |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Writing a Narrative Text |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pre Test Scores |  |  |  |  |  | Post Test Scores |  |  |  |  |  |  |
|  |  |  |  |  | $\begin{aligned} & \text { مٍ } \\ & \stackrel{\underline{\bar{O}}}{0} \\ & \text { in } \end{aligned}$ |  |  |  |  |  | 0 0 0 0 0 0 0 |  |  |
| 1 | 11 | 4 | 2 | 2 | 2 | 10 | 3 | 2 | 2 | 3 | 10 |  |  |
| 2 | 10 | 2 | 1 | 2 | 2 | 7 | 3 | 2 | 2 | 3 | 10 |  |  |
| 3 | 12 | 4 | 2 | 2 | 3 | 11 | 4 | 3 | 3 | 4 | 14 |  |  |
| 4 | 12 | 3 | 3 | 3 | 4 | 13 | 3 | 3 | 3 | 4 | 13 |  |  |
| 5 | 10 | 2 | 2 | 2 | 2 | 8 | 3 | 2 | 3 | 3 | 11 |  |  |
| 6 | 9 | 3 | 2 | 2 | 2 | 9 | 3 | 2 | 2 | 3 | 10 |  |  |


| 7 | 11 | 2 | 2 | 2 | 2 | $\mathbf{8}$ |  | 3 | 2 | 2 | 2 | $\mathbf{9}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 14 | 4 | 2 | 4 | 3 | $\mathbf{1 3}$ |  | 4 | 3 | 4 | 4 | $\mathbf{1 5}$ |
| 9 | 13 | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |  | 4 | 3 | 3 | 3 | $\mathbf{1 3}$ |
| 10 | 9 | 3 | 2 | 3 | 3 | $\mathbf{1 1}$ |  | 3 | 2 | 3 | 4 | $\mathbf{1 2}$ |
| 11 | 13 | 3 | 2 | 2 | 2 | $\mathbf{9}$ |  | 3 | 2 | 3 | 4 | $\mathbf{1 2}$ |
| 12 | 12 | 2 | 2 | 2 | 2 | $\mathbf{8}$ |  | 2 | 2 | 2 | 3 | $\mathbf{9}$ |
| 13 | 16 | 4 | 4 | 4 | 4 | $\mathbf{1 6}$ |  | 4 | 4 | 4 | 4 | $\mathbf{1 6}$ |
| 14 | 9 | 2 | 2 | 3 | 4 | $\mathbf{1 1}$ |  | 4 | 3 | 3 | 4 | $\mathbf{1 4}$ |
| 15 | 12 | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| 16 | 12 | 2 | 2 | 2 | 3 | $\mathbf{9}$ |  | 4 | 3 | 3 | 4 | $\mathbf{1 4}$ |
| 17 | 15 | 4 | 3 | 3 | 4 | $\mathbf{1 4}$ |  | 4 | 2 | 4 | 4 | $\mathbf{1 4}$ |
| 18 | 9 | 2 | 1 | 2 | 2 | $\mathbf{7}$ |  | 2 | 1 | 2 | 2 | $\mathbf{7}$ |
| 19 | 12 | 3 | 3 | 3 | 3 | $\mathbf{1 2}$ |  | 3 | 3 | 2 | 3 | $\mathbf{1 1}$ |
| 20 | 11 | 2 | 2 | 2 | 2 | $\mathbf{8}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| 21 | 13 | 3 | 2 | 2 | 2 | $\mathbf{9}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| 22 | 11 | 2 | 2 | 2 | 2 | $\mathbf{3}$ |  | 3 | 2 | 3 | 2 | $\mathbf{1 0}$ |
| 23 | 13 | 3 | 2 | 3 | 3 | $\mathbf{1 1}$ |  | 4 | 2 | 2 | 3 | $\mathbf{1 1}$ |
| 24 | 12 | 2 | 2 | 2 | 3 | $\mathbf{9}$ |  | 3 | 3 | 2 | 3 | $\mathbf{1 1}$ |
| 25 | 11 | 3 | 2 | 2 | 2 | $\mathbf{9}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| 26 | 13 | 3 | 2 | 2 | 2 | $\mathbf{9}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| 27 | 9 | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |  | 4 | 2 | 2 | 4 | $\mathbf{1 2}$ |
| 28 | 10 | 3 | 2 | 3 | 3 | $\mathbf{1 1}$ |  | 3 | 2 | 3 | 4 | $\mathbf{1 2}$ |
| 29 | 11 | 3 | 2 | 3 | 3 | $\mathbf{1 1}$ |  | 3 | 2 | 3 | 4 | $\mathbf{1 2}$ |
| 30 | 9 | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |  | 3 | 2 | 2 | 3 | $\mathbf{1 0}$ |
| Mean | 11.5 | 2.8 | 2.1 | 2.4 | 2.7 | 9.9 |  | 3.2 | 2.3 | 2.6 | 3.3 | 11.4 |
| StDev | 1.8 | 0.7 | 0.5 | 0.6 | 0.7 | 2.4 |  | 0.6 | 0.6 | 0.7 | 0.7 | 2.0 |


| T- Test (2-tailed) comparing pre and post test scores |  |  |  |
| :--- | ---: | ---: | ---: |
| Expm Class preVs. <br> post | T-Test |  | Cntrl Class preVs. Post |
| Cmpnts Mean | 0.2448 |  | 0.292626777 |
| Cmpnts StDev | 0.1377 |  | 0.685155001 |
| Totl Scores | 0.0113 |  | 0.010035704 |

## Appendix 13: Observations

Observation No. 1 Class Nine/5 Date23/1/2013 Location: Com Lab

Teacher observed: Mazin
Observer: Adel H.

Interaction Types observed in this class:

| Face-to-face Mode | Yes/No | Online Mode | Yes/No |
| :--- | :--- | :--- | :--- |
| Student-teacher | Y | Student-student (pair) | N |
| Student to student (pair) | Y | Student-student (group) | N |
| Student to student (group) | N | Student-teacher | Y |
|  |  | Student to website | Y |

Notes

## Face-to-face:

Teacher directed questions about the story elements and students volunteered to answer. The student-student interaction was present but at the pair-work level as students due to the computer lab seating map and that's why the group work was absent.

Students kept asking questions about how to regain their passwords and how to open the account as the school server seemed not supporting that website, www.edmodo.com

## Online:

The students just responded to the guidelines the teacher set for them as they were required to respond to watching a story and do an online activity:
http://www.learner.org/interactives/story/cinderella.html, about the "story elements". They were engaged in that online activity as it used interesting visuals and clear voice.

## Conclusion:

Students had issues with resetting passwords and opening the internet explorers. The interaction was teacher-student and student-website.

## Appendix 14: Questionnaire 1 Reliability

## Scale: Likert 1-5

## Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
|  | Valid | 30 | 100.0 |
| Cases | Excluded ${ }^{\mathrm{a}}$ | 0 | .0 |
|  | Total | 30 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's <br> Alpha | Cronbach's <br> Alpha Based on <br> Standardized <br> Items | N Items |
| ---: | ---: | ---: |
| .812 | .800 | 6 |

Item Statistics

|  | Mean | Std. <br> Deviation | N |
| :--- | ---: | ---: | ---: |
| I like learning in the class as well <br> as online. | 4.23 | 1.040 | 30 |
| Learning online and in class helps <br> me learn English better. | 4.20 | 1.031 | 30 |
| I like the classroom activities and <br> the online activities as well. <br> English language learning should <br> include online activities and also <br> classroom activities. | 4.13 | .860 | 30 |


| I advise other learners to learn by the model that have classroom and online activities | 4.20 | . 961 | 30 |
| :---: | :---: | :---: | :---: |
| I like to learn English again in course that combines classroom and online activities. | 4.07 | 1.172 | 30 |

## Inter-Item Correlation Matrix

$\left.\begin{array}{|l|c|c|c|c|}\hline & \begin{array}{c}\text { I like } \\ \text { learning in } \\ \text { the class } \\ \text { as well as } \\ \text { online. }\end{array} & \begin{array}{c}\text { Learning online } \\ \text { and in class } \\ \text { helps me learn } \\ \text { English better. }\end{array} & \begin{array}{c}\text { I like the } \\ \text { classroom } \\ \text { activities and } \\ \text { the online } \\ \text { activities as } \\ \text { well. }\end{array} & \begin{array}{c}\text { English } \\ \text { language }\end{array} \\ \text { learning should } \\ \text { include online } \\ \text { activities and } \\ \text { also classroom } \\ \text { activities. }\end{array}\right]$

Inter-Item Correlation Matrix

|  | I advise other learners to learn by the model that have classroom and online activities | I like to Iearn English again in course that combines classroom and online activities. |
| :---: | :---: | :---: |
| I like learning in the class as well as online. | . 469 | . 524 |
| Learning online and in class helps me learn English better. | . 515 | . 731 |
| I like the classroom activities and the online activities as well. | . 133 | . 196 |
| English language learning should include online activities and also classroom activities. | . 492 | . 654 |
| I advise other learners to learn by the model that have classroom and online activities | 1.000 | . 385 |
| I like to learn English again in course that combines classroom and online activities. | . 385 | 1.000 |

Item-Total Statistics
$\left.\begin{array}{|l|r|r|r|r|}\hline & \begin{array}{l}\text { Scale Mean if } \\ \text { Item Deleted }\end{array} & \begin{array}{l}\text { Scale Variance } \\ \text { if Item Deleted }\end{array} & \begin{array}{l}\text { Corrected Item- } \\ \text { Total Correlation }\end{array} & \begin{array}{c}\text { Squared } \\ \text { Multiple }\end{array} \\ \text { Correlation }\end{array}\right] .582$

\begin{tabular}{|c|c|c|c|c|}
\hline \begin{tabular}{l}
I advise other learners to learn by the model that have classroom and online activities \\
I like to learn English again in course that combines classroom and online activities.
\end{tabular} \& 20.80 \& \(\begin{array}{r}14.303 \\ \\ \\ \\ \\ \hline\end{array}\) \& .552

.723 \& .357

.632 <br>
\hline
\end{tabular}

## Item-Total Statistics

|  | Cronbach's Alpha if Item Deleted |
| :--- | ---: |
| I like learning in the class as well as online. | .769 |
| Learning online and in class helps me learn English better. | .734 |
| I like the classroom activities and the online activities as well. | .861 |
| English language learning should include online activities and also <br> classroom activities. <br> I advise other learners to learn by the model that have classroom <br> and online activities <br> I like to learn English again in course that combines classroom and <br> online activities. | .766 |

## Scale Statistics

| Mean | Variance | Std. Deviation | N of Items |
| ---: | ---: | ---: | ---: |
| 25.00 | 19.241 | 4.386 | 6 |

Appendix 15: Questionnaire 2 Reliability

## Reliability Scale: Questionnaire 2

Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
|  | Valid | 30 | 100.0 |
| Cases | Excluded ${ }^{\text {a }}$ |  | 0 |

a. Listwise deletion based on all variables in the
procedure.
Reliability Statistics

| Cronbach's <br> Alpha | Cronbach's <br> Alpha Based on <br> Standardized <br> Items | N of Items |
| ---: | ---: | ---: |
| .844 | .851 | 4 |

Item Statistics

|  | Mean | Std. Deviation | N |
| :--- | ---: | ---: | ---: |
| Online activities help <br> improve my writing. <br> Online activities help me <br> write more. | 3.90 | 1.062 | 30 |
| Online activities help me <br> identify punctuation and <br> spelling mistakes <br> Online activities help me get <br> more feedbacks on my <br> writings | 4.23 | .910 | 30 |


| Inter-Item Correlation <br> Matrix | Online activities <br> help improve my <br> writing. | Online activities <br> help me write <br> more. | Online activities <br> help me identify <br> punctuation and <br> spelling <br> mistakes | Online activities <br> help me get <br> more feedbacks <br> on my writings |
| :--- | ---: | ---: | ---: | ---: |
| Online activities help <br> improve my writing. <br> Online activities help me <br> write more. <br> Online activities help me <br> identify punctuation and <br> spelling mistakes <br> Online activities help me get <br> more feedbacks on my <br> writings$\quad 1.000$ | .643 | 1.000 | .406 | .609 |

Item-Total Statistics

|  | Scale Mean if <br> Item Deleted | Scale Variance <br> if Item Deleted | Corrected Item- <br> Total Correlation | Squared <br> Multiple <br> Correlation |
| :--- | ---: | ---: | ---: | ---: |
| Online activities help <br> improve my writing. <br> Online activities help me <br> write more. <br> Online activities help me <br> identify punctuation and <br> spelling mistakes <br> Online activities help me get <br> more feedbacks on my <br> writings$\quad 12.53$ | 5.223 | .634 | .459 |  |


|  | Cronbach's Alpha if Item Deleted |
| :--- | ---: |
| Online activities help improve my writing. | .830 |
| Online activities help me write more. | .753 |
| Online activities help me identify punctuation and spelling mistakes | .841 |
| Online activities help me get more feedbacks on my writings | .782 |

## Scale Statistics

| Mean | Variance | Std. Deviation | N of Items |
| ---: | ---: | ---: | ---: |
| 16.43 | 9.426 | 3.070 | 4 |

## Appendix 16 T-tests Reliability

Scale: Liker Scale Student Attitudes
Case Processing Summary

|  | N | $\%$ |  |
| :--- | :--- | ---: | ---: |
| Valid | 5 | 100.0 |  |
|  | Excluded |  |  |
|  |  | 0 | .0 |
|  | Total |  | 5 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's <br> Alpha | N of Items |
| ---: | ---: |
| .949 | 4 |

## Validate Data

## Warnings

Some or all requested output is not displayed because all cases, variables, or data values passed the requested checks.

T-TEST PAIRS=Expm.Pre WITH Cntrl.Pre (PAIRED)/CRITERIA=CI(.9500) /MISSING=ANALYSIS.

## T-Test

Paired Samples Statistics

|  |  | Mean | N | Std. Deviation | Std. Error Mean |
| ---: | :--- | ---: | ---: | ---: | ---: |
| Pair 1 | Expm.Pre | 9.4000 | 30 | 2.74929 | .50195 |
|  | Cntrl.Pre | 9.8667 | 30 | 2.41737 | .44135 |

Paired Samples Correlations

|  | N | Correlation | Sig. |
| :--- | :--- | ---: | ---: | ---: |
| Pair 1 $\quad$ Expm.Pre \& Cntrl.Pre | 30 | .486 | .007 |

Paired Samples Test

|  | Paired Differences |  |  |  |
| :--- | :--- | ---: | ---: | :---: |
|  | Mean | Std. Deviation | Std. Error Mean | 95\% Confidence <br> Interval of the <br> Difference |
|  |  |  |  | Lower |
|  | Expm.Pre - Cntrl.Pre | -.46667 | 2.63574 | .48122 |

Paired Samples Test

|  | Paired Differences | t | df | Sig. (2-tailed) |
| :---: | :---: | :---: | :---: | :---: |
|  | 95\% Confidence Interval of the Difference |  |  |  |
|  | Upper |  |  |  |
| Pair 1 Expm.Pre - Cntrl.Pre | . 51753 | -. 970 | 29 | . 340 |

One way
Expm.Pre

|  | Sum of Squares | df | Mean Square | F | Sig. |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Between Groups | 120.343 | 9 | 13.371 | 2.705 | .031 |
| Within Groups | 98.857 | 20 | 4.943 |  |  |
| Total | 219.200 | 29 |  |  |  |

T-TEST GROUPS=Calss(1 2) /MISSING=ANALYSIS /VARIABLES=Expm.Pre /CRITERIA=CI(.95).

## T-Test

## Group Statistics

|  | Calss | N | Mean | Std. Deviation | Std. Error Mean |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Expm.Pre | Expm | 30 | 9.4000 | 2.74929 | .50195 |
|  | Cntrl |  | 30 | 9.8667 | 2.41737 |

Independent Samples Test

|  |  | Levene's Test for Equality of <br> Variances |  | t-test for Equality of Means |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | F | Sig. | t | df |
|  | Equal variances assumed | . 703 | . 405 | -. 698 | 58 |
| Expm.Pre | Equal variances not assumed |  |  | -. 698 | 57.066 |

Independent Samples Test


Independent Samples Test


|  |  | Lower | Upper |
| :--- | :--- | ---: | ---: |
| Expm.Pre | Equal variances assumed | -1.80459 | .87126 |
|  | Equal variances not assumed | -1.80506 | .87173 |

T-TEST GROUPS=Calss(1 2) /MISSING=ANALYSIS /VARIABLES=PstPost /CRITERIA=CI(.95).

## T-Test

Group Statistics

|  | Calss | N | Mean | Std. Deviation | Std. Error Mean |
| :--- | :--- | ---: | ---: | ---: | ---: |
| PstPost | Expm | 30 | 11.2667 | 2.77841 | .50727 |
|  | Cntrl | 30 | 11.4000 | 2.02740 | .37015 |

Independent Samples Test

|  |  | Levene's Test for Equality of Variances |  | t-test for Equality of Means |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | F | Sig. | t | df |
| PstPost | Equal variances assumed | 6.406 | . 014 | -. 212 | 58 |
|  | Equal variances not assumed |  |  | -. 212 | 53.061 |

Independent Samples Test

|  | t-test for Equality of Means |  |  |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Sig. (2-tailed) | Mean Difference | Std. Error <br> Difference |
| PstPost | Equal variances assumed | .833 | -.13333 | .62796 |
|  | Equal variances not assumed | .833 | -.13333 | .62796 |


|  |  | t-test for Equality of Means |  |
| :--- | :--- | :--- | :---: |
|  |  | $95 \%$ Confidence Interval of the Difference |  |  |
|  | Lower |  |  |
| PstPost | Equal variances assumed | -1.39033 |  |
|  | Equal variances not assumed | -1.39282 |  |

T-TEST PAIRS=ExpmPrePost WITH ExpmAttempts (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.

## T-Test

Paired Samples Statistics

|  |  | Mean | N | Std. Deviation | Std. Error Mean |
| :--- | :--- | ---: | ---: | ---: | ---: |
| Pair 1 | ExpmPrePost | 10.3333 | 60 | 2.89750 | .37407 |
|  | ExpmAttempts | 1.5000 | 60 | .50422 | .06509 |

Paired Samples Correlations

|  | N | Correlation | Sig. |  |
| :--- | :--- | ---: | ---: | :--- |
| Pair 1 |  <br> ExpmAttempts | 60 | .325 | .011 |

Paired Samples Test

|  | Paired Differences |  |  |  |
| :--- | :--- | ---: | ---: | :---: |
|  | Mean | Std. Deviation | Std. Error Mean | 95\% Confidence <br> Interval of the <br> Difference |
| Pair 1ExpmPrePost - <br> ExpmAttempts | 8.83333 | 2.77499 | .35825 | 8.11648 |

Paired Samples Test

|  | Paired Differences <br> $95 \%$ Confidence <br> Interval of the <br> Difference <br> Upper | t | df | Sig. (2-tailed) |
| :---: | :---: | :---: | :---: | :---: |
| Pair 1 ExpmPrePost - ExpmAttempts | 9.55019 | 24.657 | 59 | . 000 |

T-TEST PAIRS=ExpmPre WITH ExpmPost (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.

## T-Test

Paired Samples Statistics

|  |  | Mean | N | Std. Deviation | Std. Error Mean |
| ---: | :--- | ---: | ---: | ---: | ---: |
| Pair 1 | ExpmPre | 9.4000 | 30 | 2.74929 | .50195 |
|  | ExpmPost | 11.2667 | 30 | 2.77841 | .50727 |

Paired Samples Correlations

|  | N | Correlation | Sig. |
| :--- | ---: | ---: | ---: |
| Pair 1 $\quad$ ExpmPre \& ExpmPost | 30 | .473 | .008 |

Paired Samples Test

|  | Paired Differences |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | Mean | Std. Deviation | Std. Error Mean | $95 \%$ <br>  |
|  |  |  |  | Confidence Interval of <br> the Difference |
|  |  |  |  | Lower |
| Pair 1 |  |  |  | -51803 |

Paired Samples Test

|  |  | Paired Differences | t | df | Sig. (2-tailed) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 95\% Confidence Interval of the Difference |  |  |  |
|  |  | Upper |  |  |  |
| Pair 1 | ExpmPre - ExpmPost | -. 80718 | -3.603 | 29 | . 001 |

