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Teaching English vocabulary and online games to eighth grade students

Enseñanza de vocabulario en inglés y juegos en línea en estudiantes de de octavo grado

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### **ABSTRACT**

The objective is based on exploring the impact of the use of online educational games in comparison with traditional classroom methods to teach English vocabulary to eighth grade students at Mercedes Vázquez Correa School. Quantitative approach with a participation of 13 students. By means of a vocabulary retention test, results were obtained showing that students remember a greater amount of vocabulary by means of traditional methods; however, students remember a greater amount of words accurately with the use of online games. In addition, the survey data reveal that students are comfortable with online games and that they prefer to learn vocabulary through online games rather than through drawings or flashcards in class.

**Descriptors:** Educational games; group instruction; language instruction. (UNESCO Thesaurus).

## RESUMEN

El objetivo se basa en explorar el impacto del uso de juegos educativos en línea en comparación con los métodos tradicionales en clase, para enseñar el vocabulario de inglés a los estudiantes de octavo grado en la escuela Mercedes Vázquez Correa. De enfoque cuantitativo con una participación de 13 estudiantes. Por medio de un test de retención de vocabulario se obtuvieron los resultados en los cuales se demuestra que los estudiantes recuerdan una mayor cantidad de vocabulario por medio de los métodos tradicionales, sin embargo, el alumnado recuerda una mayor cantidad de palabras con precisión con el uso de los juegos en línea. Además, los datos de la encuesta revelan que los estudiantes se encuentran a gusto con los juegos en línea y que ellos prefieren aprender vocabulario con los juegos en internet que por medio de los dibujos o fichas en clase.

**Descriptores:** Juego educativo; enseñanza en grupo; enseñanza de idiomas. (Tesauro UNESCO).

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## INTRODUCTION

Vocabulary is the basis for communicating in oral and written ways in any language. According to (Jannah et al. 2020), teaching vocabulary has become an important aspect for learning English language because without sufficient vocabulary, students cannot understand others or express their own ideas. According to (Andi & Arafah, 2017) the vocabulary acquisition and its extensive knowledge enable the English skills of the learners, developing interactivity or communication through the English language. Students and teachers realize the importance of learning vocabulary for communicating with people in the English language. However, very little research has been done to discover that learning English vocabulary could be difficult for learners (Vasileiadou & Makrina, 2017).

To enable students to learn English vocabulary in an innovative way, teachers must find the most effective method to teach it, such as teaching through digital tools (Alamr, 2019). However, there are some unsatisfactory methods and techniques that have not been successful in teaching vocabulary in the classroom, such as the traditional methods that have been developed on top of the current education programs (Andreani & Ying, 2019). According to some studies, there is an effective method to help teachers introduce vocabulary in a different way in their English classes; this is using online educational games in their classrooms (Seli, 2015).

It is necessary to consider that the current learners are Digital Natives and Digital Immigrants since they born in the digital era and know how to use computers, video games, cellphones and other technological tools and toys. On the contrary, there are some learners who are digital immigrants because they are not born in this digital era. Like so, they have to learn how to use the different technology and moreover they are in the process of learning a new language (Prensky, 2001).

Another study has realized about the effectiveness of applying these kinds of games in the vocabulary learning process. For (Gozcu & Caganaga, 2016) a relaxing learning

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atmosphere is created by using online Educational games. Besides (Septian, 2019) has

focused on the positive impact of applying online games on the learning process. Learners

learn English while they play online games because the games are made from English

countries, places where English is the main language.

Therefore, this research focuses on analyzing the impact of using online educational

games in comparison to traditional in-class methods to teach English vocabulary to eighth

grade students at Mercedes Vazquez Correa (MVC). Moreover, this study examines the

perceptions of these students regarding the use of educational online games and

traditional methods to learn English vocabulary.

Theoretical framework

What is vocabulary?

According to (Alqahtani, 2015), vocabulary is the total number of words required to

communicate ideas and express the meaning of the speakers because it allows the

learning of foreign language vocabulary either in the classroom or with didactic material

such as books. It is also elementary for language teaching (Cummings et al. 2018)

establish whether students do not know the meaning of new words, they will not

understand any text, and they will not be able to comprehend the meaning of it.

Vocabulary is the most essential tool of thought, emotion and speech, enabling reciprocal

understanding and communication between people (Shadiev et al., 2020). Vocabulary is

comprised of the grouping of terms of a language understood by an individual and used

for everyday interactivity (Shabaneh & Farrah, 2019).

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# What are online games?

In particular, the pursuit of educational development through online games has made it possible to be a broad and deep attraction in the learning environment; the effect of online games in language learning has proved to be very significant, generating motivation, engagement, vocabulary improvement and breadth in communicative interactivity (Hong et al. 2017; Zhang et al. 2017). In that sense, games are effective tools to teach English as a second language to learners (Sevilla, 2021). Online games are played online on the Internet; usually all that is needed to play internet games is a web browser and the correct plug-in. Online games have the potential to vary from primordial script-based games to games that unite complicated graphics and virtual universes populated by multiple players in parallel (Wiggins, 2016). In this way, online games from the educational paradigm can be understood as a playful and interactive material in which different topics can be understood, enhancing different educational skills of the student (Azman & Farhana, 2018).

# **Connectionism theory**

Connectionism is an articulation of neuroscience and cognitive science, which imitates the cognitive function of the subject, not by means of information computation, but from the direction of resources of a network that tries to imitate the structure of the central nervous system (Caballero-de-la-Torre & Robles, 2005). Apart from that, connectionism is the progressive development in the new acquisition forms of knowledge; thus, the effect of technology - digitalization in the environment influences the development of knowledge.(Islas, 2021).

Thus, from connectionism, Lightbown and Spada (2013) found that the acquisition of languages is possible thanks to the general cognitive abilities of children and the enormous share of the possibilities that they have to establish a connection between the language they hear and what they experience in their field. In addition, the acquisition of

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language connects words not only to sources of external truth, but also it connects to other words or phrases that are associated with them.

### Literature review

Regarding to the importance of vocabulary (Alqahtani, 2015) has found that vocabulary is a crucial part of learning a language. It is necessary to comprehend that lexical knowledge is the center to gain a Second Language (L2) like English and to establish communicative competence. Furthermore, he demonstrates some techniques that could be effective in the vocabulary teaching process such as using pictures and illustrations to connect students' past knowledge with a completely new story. The author argues that illustrations or photographs are a great way to decipher the meaning of unfamiliar words. (Aghlara & Tamjid, 2011) in their study found out that using digital games to teach a L2 to children increased motivation to learn English, engaged them in the different games and reduced the stress within the classroom.

As educational online games have some benefits on the vocabulary learning process, they also have some limitations (Klimova & Kacet, 2017) in their investigation found that the high interactivity of the students can prevent vocabulary learning. They also identified lack of preparation of teachers to use some different educational games. A study by (Wang & Tahir, 2020) showed that time is another limitation since some educational online games are long and there is not enough time for teachers to explain the instructions to complete the game by students.

Dehaan (2010) attempted to demonstrate the effect of applying video games in two groups, one group of students had to play and the other group had to watch the video games. After they played and watched, they were evaluated through a vocabulary recall test. The results obtained were that players and viewers remembered in-game vocabulary; however, players recalled significantly less vocabulary than viewers; the players perceived the game and its language as much more complex than observers. In

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addition, players reported that they had difficulties paying attention to the game and the

vocabulary simultaneously. Hence, the researcher mentioned that it is important to

combine teaching with interactive material for learning a foreign language.

**METHOD** 

This research used a quantitative approach for data collection and analysis. The

quantitative method analyzes numerical data by using statistical methods (Apuke, 2017).

This study was carried out to find out the impact of using online games in comparison to

traditional methods to learn English vocabulary. A vocabulary recall test was applied as

the written retrieval work is instantaneous (Feng et al. 2021). The participants of this study

were 13 eighth grade students from the Mercedes Vázquez Correa school which is located

in Gualaceo in the Azuay province. The participants were selected through a convenience

sample.

For applying this study, first I asked for permission to the authorities of the institution and

the students' legal representatives as they are minors. I explained parents and/or

representatives what my research was about, the aim of my investigation, the advantages

of applying this investigation and the methodologies to be used. Moreover, I gave

students' parents a consent document that had to be signed. This process was done in

an in-person meeting.

**Data collection instruments** 

Vocabulary retention test

A vocabulary retention test was used after each online game and traditional class, where

students had to write down all the words, they remembered in their L1 and in the L2.

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Survey

A survey with 5 questions related to online games and traditional methods used in class

was prepared with the purpose of analyzing student's perceptions. The survey included

two questions that required students to elaborate on their answers.

**Procedure** 

The study was performed in 3 weeks. The first week learners were asked to play an online

ESL game plus (adjectives and antonyms) wherein they had to drag and paste the letters

in order to form the synonym of the adjective they found in each sentence. After learners

finished playing this game, they had to write down as many words as they could remember

from the online game on an online application named Padlet. During the second week,

students were taught the same topic, adjectives (synonyms and antonyms), through flash

or drawing cards in class. After the lesson, they were asked to write down as many words

as they could remember on a worksheet.

In the third week, in order to know students' perceptions on the use of online games versus

the traditional method, they were required to complete the survey. It is important to

mention that 11 participants completed the survey since two students reported problems

with their internet connection on the selected day.

DATA ANALYSIS

The data obtained through the vocabulary retention tests was organized in spread sheets

and later analyzed using Microsoft Excel. The results obtained are shown through

frequency tables and graphs.

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# **RESULTS**

After analyzing the data, it was possible to identify that eighth-grade students learned more vocabulary through traditional teaching methods; however, students wrote more correct words in English after using online games compared to traditional teaching methods. Thusly, demonstrating that there is greater accuracy in English vocabulary learning with the use of online games.

**Table 1**Results of Vocabulary Retention Test.

	Online Games			Traditional Method		
Student	# words	Correct	Percent	# words	Correct	Percent
13	6,69	5,23	82,9%	7,77	6,08	77,8%

Source: Field research

According to Table 1, in terms of memory retention, students recall an average of 6.69 words in English with the application of online games while with flashcards they remembered 7.77 words in English. Furthermore, the correct spelling of the words students remembered was also evaluated, resulting in that 82.9% of the words were spelled correctly with the use of online games, as opposed to the traditional method, which presents 77.8%. Therefore, it is evident that the use of online games allows students not only to retain the vocabulary, but to recall it in a more accurate way.

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**Table 2** Individual Results of Vocabulary Retention Test of Students.

Student	Online	Game	Traditional method		
	Spanish	English	Spanish	English	
S01	0	6	5	8	
S02	12	11	14	14	
<b>S</b> 03	4	4	7	7	
S04	0	5	6	5	
S05	0	5	3	5	
<b>S</b> 06	0	5	5	8	
<b>S</b> 07	0	10	11	8	
S08	0	2	3	4	
<b>S</b> 09	2	2	3	2	
<b>S10</b>	0	13	11	12	
<b>S11</b>	7	7	8	8	
<b>S12</b>	12	10	11	12	
<b>S13</b>	6	7	7	7	

Source: Field research.

In Table 2, the results of the application of the vocabulary retention test are presented individually. In this way, it is possible to visualize the retention of English and Spanish vocabulary in the students after the application of the online games and the traditional method. Additionally, it could be seen that Spanish words were hardly recorded after the use of online games, in comparison to the amount of vocabulary remembered in the English language.

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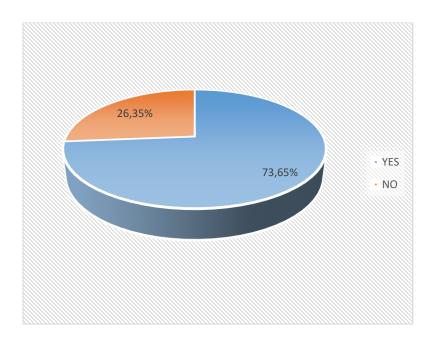
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In regard to the second instrument, the results of the survey that was applied to 11 students to know their perception about online games and traditional methods for English vocabulary learning are presented in this section.

**Question 1.** Does playing online make you happy?



**Figure 1.** Graphic representation of the answers to question 1.

Source: Field research.

From the 11 students surveyed, 73.65% which corresponds to 8 students responded that they were happy to play online, while 26.35% that is 3 students answered that playing online did not make them happy.

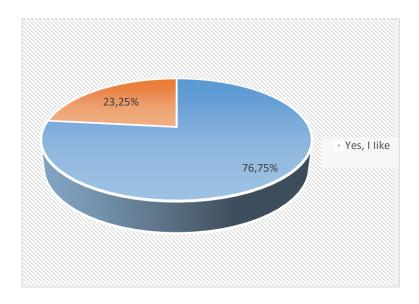
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Question 2. Do you like and play on the internet? Why?



**Figure 2.** Graphic representation of the answers to question 2.

Source: Field research

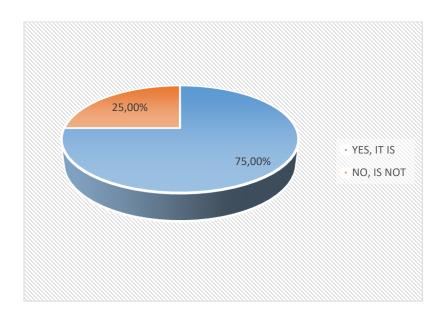
The 76.75% of the participants indicated they liked to play and learned on the internet. It is necessary to consider that for eighth grade students the use of online media and technological tools represents the development of daily activities in their personal and interpersonal context. Thus, these tools could be adapted for a context of English teaching - learning; consequently, it constitutes an opportunity for the implementation of an adequate process in growth of the wealth of knowledge for local and national education.

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**Question 3.** Is it easier to learn English vocabulary through internet games than using drawings in class?



**Figure 3.** Graphic representation of the answers to question 3. **Source:** Field research.

The 75.00% of students indicated that it is easier for them to learn English vocabulary through online games than using drawings or flashcards. Therefore, students should be exposed to an innovative education in the English teaching process, where English is used in continuous digital elements that are related to the training processes and daily life for students.

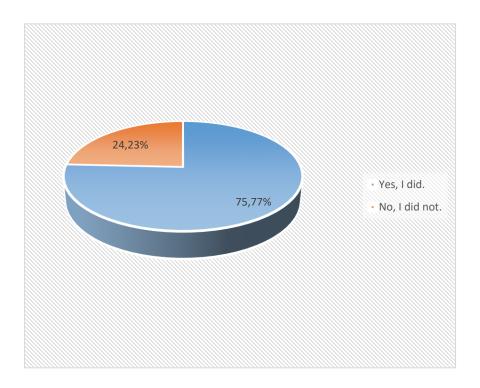
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**Question 4.** Do you prefer to learn vocabulary through internet games than through drawings in class?



**Figure 4.** Graphic representation of the answers to question 4. Source: Field research

In the same context of the previous question, 75.77% of the participants answered that they prefer to learn vocabulary through games on the Internet than through drawings or flashcards in class.

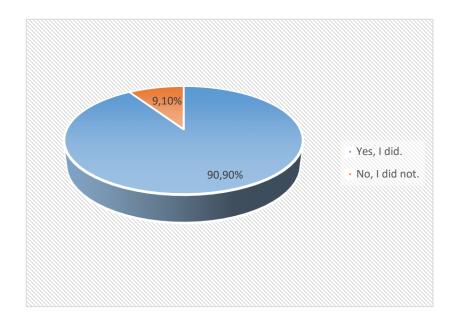
Question 5. Did you write more correct words in English when you received the class with online games than with printed drawings in the classroom?

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**Figure 5.** Graphic representation of the answers to question 5.

Source: Field research.

The 90.90% of the students responded that they had written more correct words in English when they received the class with online games, in contrast to the class that implemented printed drawings to promote English vocabulary learning. For this reason, new methodologies of educational interaction could be reviewed to foster the interest of learning English in students and motivate them to learn more vocabulary in a language of importance and global significance.

# **DISCUSSION**

The analysis is based on the results of the vocabulary retention test and the examination of the perceptions of eighth grade students regarding the use of online educational games and traditional methods to learn English vocabulary. Consequently, the 13 students who participated in the study presented better levels of acceptance and practice for learning

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English through online educational games, considering that they use technology in all

areas of life, and education could not be the exception.

Furthermore, the results of this research are similar with the study of (Aghlara & Tamjid,

2011) who found that using online games as a tool to teach vocabulary, helps students to

increase their motivation to learn a L2.

In addition, in this study it was found that the students remembered more words with the

use of flash cards, but they did not know how to write them correctly as they did when

using of the online games. The results of this research agree with those presented in the

study by Alqahtani (2015) where it is mentioned that using pictures for teaching vocabulary

is the one of the best techniques for decoding unknow words. Besides, it was observed

that memory retention of the vocabulary of the students was lower when they played

online games than when using flashcards; however, the spelling of the English words was

higher than the other method (Dehaan, 2010) in his study demonstrated that players

recalled less vocabulary than the viewers. In summary, it is seen that students do not pay

attention to the games and to the number of words that appeared on the screen when

they play.

CONCLUSIONS

This research fulfilled its purpose, which was to explore the impact of the use of online

educational games in comparison with traditional classroom methods to teach English

vocabulary to eighth grade students. The theory of connectionism, takes importance in

this study since it allows directing digital resources to strengthen the desired

communicative skills (Lightbown & Spada, 2013).

It was possible to identify through the instruments applied, that there was a higher

percentage of vocabulary retention with the use of traditional methods. However, it is

important to note that the amount of vocabulary retention was not linked to correct writing

as there were more correct words recalled with online games. As a result, through this

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study it could be inferred that online games allow students to retain more correct words.

It is important to mention that the proper conduction of online games allows the students

to learn in a much more interactive way in class and not get bored easily in class (Aghlara

& Tamjid, 2011).

The perception of the students about the use of online educational games and traditional

methods for teaching English vocabulary is that they learned more words with the use of

online games. Additionally, they are still accustomed to the use of traditional methods, so

they consider it is the most appropriate in their learning. Traditional methods can be a

good and useful resource for teaching vocabulary, as online games can be. Even so, it is

important that teachers know how to create spaces for students to interact with online

games that allow them to increase their communication skills. These spaces must be

controlled so that students fulfill the purposes of the classes without being distracted.

It is necessary to acknowledge that the study had limitations. First, the limited number of

participants do not allow the generalization of the results. Virtual classes were also a

limitation at times as some participants did not have good internet connectivity for the

execution of the online game and retention test. Hence, it is recommended for future

investigations to study in greater depth the use of gamification, controlling these external

factors, in order to develop the communicative skills in students.

**FINANCING** 

No monetary

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