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# **International Journal of Applied Language Studies and Culture**

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# THE EFFECTS OF AN ON-LINE READING INTERVENTION ON THE DEVELOPMENT OF ENGLISH DECODING SKILLS AMONG MOROCCAN ADULT STRUGGLING READERS

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**Abstract.** The present study examines the role of an intensive phonics-based online reading program in developing decoding skills among a group of low-intermediate adult learners. All the participants taking part in this experiment are defined as low-level, or struggling, readers. A lexical-decision task is administered to a total of twenty-four students divided into two main groups: treatment and control groups. The administration of the computer-based test is twofold and is done over two main phases: pre- and post-intervention. The online reading intervention, which is tailored to cover English orthographic knowledge and sound processing of high and low frequency words, is exclusively designed for the experimental group for four weeks. The intervention group demonstrates a significant improvement in spelling skills, reading speed and phoneme awareness. The results, on the one hand, suggest the importance of L2 print exposure which fosters phonological processing skills. On the other hand, the findings show that word identification processes operate at a pre-lexical access stage and are rudimentary to recognize and activate a lexical item.

**Keywords:** *Decoding, Intervention program, orthographic knowledge, phonological processing, word identification.*

## Introduction

With the shift to online instruction during the looming widespread of Covid-19, there has been a growing need to find optimal ways to cope with reading difficulties, especially among EFL adult population. In most EFL traditional classes, teachers often tend to check the reading development of their students throughout the use of certain comprehension strategies (making inferences, text completion, argumentations, to name but a few). The focus on readers' background knowledge is remarkably followed by an inability to process written code by means of basic decoding skills. Failure to decode the phonemes and their corresponding graphemes

results in comprehension deficiency (Holmes, 2009; Jiang, 2018). To address this issue, reading intervention programs are useful tools to help below-average readers, even at an advanced age, improve their literacy skills. In light of the increasing number of online classes, under the current circumstances, devising specialized online interventions may very well be a prominently efficient alternative to in-person instruction and progress monitoring.

## Reading Models

Reading is defined as a complex cognitive skill which entails an intricate interplay between adequate lower- and higher-level processes (Nassaji, 2014; Grabe, 2012; Martin, 2017). Reading fluency is inextricably interrelated with the readers' ability to convert printed (or orthographic) information into phonological constituents which in turn predict comprehension (Liu, 2010; Holmes, 2009; Helland et al., 2011; Fatemi, Vahedi, & Sayyedrezaie, 2014; Suraprajit, 2019; Zhang et al., 2021). Higher-level processes, also known as text-level skills, includes reading comprehension strategies and subskills such as making predictions, skimming, and activating background knowledge, etc. (Jiang, 2017; Yamashita, 2013).

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The bottom-up approach looks at reading as rigorously consisting of phases starting from early analysis of graphic symbols and their phonemic counterparts (Nassaji, 2014; Liu, 2010; Holmes, 2009). Orthographic knowledge, a subcomponent of lower-level abilities, involves assigning each grapheme a corresponding sound, identifying phonemic units, combining the sound segments to form words and phrases, and eventually activating the semantic representations of the text in a sequential fashion (Nassaji, 2003; Yamashita, 2013). While the bottom-up model pays little attention to comprehension processes, it accentuates the major role of decoding skills that function by virtue of graphophonic word-level parameters, namely orthographic and phonological processing. The last two terms, basically making up the bulk of the ongoing research paper, are underlined in detail here.

Contrary to visual word-recognition conceptual framework, the psycholinguistic reading model puts much emphasis on the contributions of higher-level processes. Reading, from a top-down standpoint, is conceptualized as a guessing game where readers employ a number of inferential strategies, critical thinking skills, jigsaw reading techniques in order to extract meaning from the text (Nassaji, 2014; Liu, 2010; Holmes, 2009). In this vein, the significance of word analysis is systematically downgraded. Individual differences in reading ability are measured by higher-level sources. In other words, print processing is highly contingent upon semantic as well as syntactic cues rather than automatic word decoding, reflected in the letter-to-sound correspondences assumption (Nassaji & Geva 1999; Coltheart et al., 1979).

Finally, and prior to highlighting research studies that track down the stages of L2 word reading, we find it incumbent upon us to acknowledge that both views interact to improve comprehension (Holmes, 2009). The interactive model brings both lower-and higher-level components together in the attempt to reach the goal of reading-comprehension (Nassaji, 2014; Perfetti, 2007; Brenznitz, 2006). In what follows, the discussion is solely confined to research body casting the light on the relationship between lower-level processes and L2 reading.

### **Lower-level Processes in L2 Reading**

Even though L2 readers may not have adequate vocabulary and grammar rules, adept manipulation of linguistic units facilitates the reading process (Mulder et al., 2021). Efficient

L2 reading is undoubtedly the outcome of readers' ability to distinguish sounds and graphic segments, use spelling rules correctly, and recognize morphemes and syllables in words. These lower-level processes, already experienced by learners while striving to read in L1, may equally account for the development of L2 literacy practices later. Since the process of learning to read is pretty much the same in all languages, L2 readers tap into their knowledge of L1 reading abilities to decipher and comprehend written code (Nassaji 2011, 2014). The focus here, nonetheless, is far from merely drawing cross-linguistic comparisons, but the interest of the current study rather inheres in the multiple contributions of word analysis skills in L2 reading.

To begin with, let us provide a cogently terse description of the two central elements embedded within lower-level processes, videlicet, orthographic, and phonological processing. Orthographic processing is the capacity to observe how letters are joined together to form words. Simply put, orthographic processing occurs when readers visually recognize letters as unified symbols (Fender, 2003, 2008; Nassaji, 2014). Research shows that L2 reading fluency is grossly ascribed to the appropriate use of conventional spelling regularities (Abu Rabia, 2014; Houlis et al., 2019). That is, Skilled reading is endowed with quick and accurate print processing when retrieval of visual orthographic information is triggered by efficient mastery of rule-governed spelling forms (Fender, 2003).

Like orthographic processing, readers rely on phonological information, the pronunciation form of consonants and vowels alike, to process graphemes particularly while reading in an alphabetic script (Van Orden & Cloos, 2008; Martin, 2017). As a matter of fact, phonological processing skills impose theoretical and methodological issues because they are inevitably intertwined within the scheme of orthography. Evidence coming from a proliferative body of research in the literature, however, indicates the independent nature of sound decoding from that of spelling skills in L2 reading (Burt, 2006). The ability to sound out the minimal linguistic units is believed to be critical for the development of normal reading (Goswami, 2000; Hulme et al., 2005). In this line of research, phonological processing is viewed as comprising three integral cognitive abilities: phonological awareness (identifying and manipulating speech sound), phonological decoding (phonologically realizing print information), and phonological recoding

(retrieving meaning from the mental lexicon based on phonological units).

Many L2 reading research studies build upon findings that reveal strong relationships between lower-level processes and enhanced reading. The Phonological awareness (PA) skill, for instance, is found to be a predictor of word recognition among L2 readers (Chiappe et al., 2002; Lesaux & Siegel 2003; Netten, Droop & Verhoeven, 2011; Russak & Saiegh-Haddad 2011). Further, in an innovative study on the impact of L2 reading intervention on L1 literacy skills, Abu Rabia reported positive correlations between PA and reading ability (Abu Rabia & Shakkour, 2014). Fender (2003), in his comparative study on the performance of Arabic and Japanese subjects over a lexical decision task, concluded that Arabic learners excessively resorted to phonology to decode English words due to L1 alphabetic mapping principle. Because Arabic is featured by a shallow orthography, i.e., letters and sounds are highly consistent, Arab participants failed to successfully read English words. Fender's study implied that L2 word recognition sprang from accurate phonological decoding and that disparities attested at the level of script could be handled by extensive exposure of L2 print.

### **Word Recognition and Spelling**

Word recognition skills are linked to reading proficiency and refer to the rapid identification of individual words (Han, 2015; Martin, 2017; Jiang, 2018). Both L1 and L2 reading research contend that word recognition is the process of identifying familiar letter clusters as whole units (Torgeson, Wagner & Rashotte, 1999; Jiang, 2018). Two mechanisms, which revolve around solid orthographic skills, are utilized to identify words: word sub-forms (derivational as well as inflectional morphemes) and sight words (letter combinations recognized with relative ease and automaticity). Meanwhile, reading low-frequency and unfamiliar words presupposes matching letters to their analogous sounds (Zeigler & Goswami, 2005). It stands to reason that graphophonic processes are crucial to word recognition, which is argued to be a precursor of reading fluency and comprehension (Abu Rabia & Danon, 2012; Nassaji & Geva, 1999; Jiang, 2018).

Analogous to word recognition, spelling involves lower word-level processes (Jiang, 2018). To attain a high level of spelling skills, readers are required to manipulate and play with different linguistic units namely complex morphological forms as well as phonemes

accordingly (Ehri, 2000). The Lexical Quality Hypothesis (Perfetti & Hart, 2001) defines three constituents of words (orthographic, phonological, and semantic components). According to the Lexical Quality Hypothesis, word recognition is enhanced once readers establish the connection between spelling representations and their relevant phonological and semantic properties (Perfetti & Hart, 2001; Martin, 2017; Jiang, 2018). Learning how words are spelt is, therefore, conducive to exemplary word identification (Berninger et al., 2002; Burt & Tate, 2002; Caravoles, Hulme, & Snowling, 2001; Perfetti & Hart, 2001; Martinez et al., 2021).

Lexical access seems to operate at a phonological level when the orthography entails a direct relationship between letters and their phonemic counterparts (Abu Rabia & Shakkour, 2014; Koda & Reddy, 2008). Lexical access underpinned by phonology fails when words are characterized by irregular spelling patterns. In such case, recognition is largely based on interventions, word-frequency, and word length (Nassaji, 2014). For instance, studies examining the impact of instruction on decoding and spelling indicate positive improvements in overall phonemic awareness skills, decoding, word fluency and comprehension (Weiser & Mathes, 2011; Helland, Heimann, & Tjus, 2011). Differentiated instruction may very well boost readers' awareness of lower-level literacy skills (Jiang, 2018).

It is within the precepts of the research body underlined in the above section that the present paper is located. In this study, we seek to investigate the occurrence of possible correlations between developed lower-level processes and word recognition in English as a result of an online phonic program. Much attention is paid to the contribution of fostered orthographic and phonological processing abilities to accurate and rapid decoding of words. Less attention is paid to the role of word recognition skills in comprehension for two reasons. First, comprehension starts from a bottom-up layer that stresses the role of graphophonic skills in the process of learning to read. Second, this research paper is part of a longitudinal study that digs into the influence of L2 print exposure and practice on developing the major components of reading including comprehension.



## Materials and Method

The research population includes a sample of (60% female and 40% male) twenty-four Moroccan EFL students split into two major groups: control and experimental groups. All the participants come from a middle socio-economic level. They are adult learners operating within A2 CEFR level (equivalent to pre-intermediate level) at the American Language Center El Jadida, Morocco. The selection process was based on the students' performance scores in different reading tasks as well as their English level which is reckoned to be below average. All the participants are ipso facto defined by their teacher, also the experimenter, as struggling readers.

### Procedure

A lexical decision task was administered to each individual participant in a quiet room and in-person (Appendix 1). The administration took place in a rotated order and lasted for two sessions spread over two days. One computer was used given the small-size sample. Before starting the test, the experimenter provided verbal and printed instructions in Arabic to ensure understanding. The lexical decision was controlled by the DMDX program software (Froster & Froster, 2003), in which lexical items were displayed on the computer screen.

There was a total of 60 words divided into two main categories: (1) English real words (words that follow correct consistent and inconsistent spelling patterns such as MEAT/heat and DONE/bone) (2) English non-words, pseudo-words, (words that do not exist but follow a consistent and inconsistent spelling pattern, e.g., PHINT/hint; \*ZOW/kow). The participants were guided to make a response using the computer keyboard. For real words, the subjects' correct answers were determined by a swift pressing of the right shift key (yes-answers). For non-words, correct responses were made by pressing the left shift key (no-answers).

The subjects had 2s or less to make their decisions before the next stimulus appeared on the screen. Time out responses, literally making no decision, occurred when the 2s elapsed. By and large, the task took three to five minutes in case technical issues were brought up. Upon completion of the test, DMDX asked the cohorts to save the data. The results of the lexical decision task in this phase were especially important in establishing a

baseline for comparison with the participants' scores obtained at the end of the intervention program, which was exclusively designed for the intervention group.

A virtual platform with appropriate features was chosen to hold the online classes. The materials such as the supporting cards and the worksheets were thus distributed in soft copies via e-mails before the commencement of the intervention. The phonics program consisted of four tiers: 1. consonants; 2. Long/short vowels; 3. spelling rules; 4. sight words (Appendix 2). The program was roughly an expansion of Knight's "Inspire a life of reading" and "Teaching English Spelling" by Ruth Shemesh and Sheila Waller (Knight, 2005; Shemesh & Waller, 2011). As to the time framework, the intensive online intervention lasted for a month with classes of 90 minutes taking place three times a week. By the end of the scheduled lessons, both control and intervention groups took the same lexical decision test.

## Results

To test the validity of the ongoing research paper's hypotheses (i.e., extensive exposure and practice of lower-level processes through delivering a phonic-based intervention in English would bring about an improvement in word decoding skills) a descriptive analysis was conducted to verify data and the general performance of both groups on the lexical decision task before and after the intervention program. Time out responses were excluded from the analysis. Table 1 and 2 show the frequency of responses made regarding correct and incorrect trials before and after the end of the intervention program accordingly:

Table 1: Cor & Inc Responses\_Before Intervention

Groups		Frequency	Percentage
Control Group	Incorrect Answers	524	74%
	Correct Answers	184	26%
	Total	708	100%
Intervention Group	Incorrect Answers	446	63%
	Correct Answers	262	37%
	Total	708	100%

Table 2: Cor & Inc Responses\_After Intervention

Groups		Frequency	Percentage
Control Group	Incorrect Answers	437	62%
	Correct Answers	271	38%
	Total	708	100%
Intervention Group	Incorrect Answers	208	29%
	Correct Answers	500	71%
	Total	708	100%

To check for any statistically significant difference in the test performance of both groups, Response Times were compared by means of a paired-samples t-test. For the record, in psycholinguistic experiments, response times are interchangeably known as reaction times (RTs). The values presented in table 3 show the means and standard deviations of the response times before and after the intervention:

Table 3: means and standard deviations of RTs before and after intr.

Groups	Response Times	N	Means	SD
Control Group	RTs_bef	707	547,5036	9,34527
	RTs_aft	708	548,7224	6,1075
Intervention Group	RTs_bef	708	599,3478	7,0255
	RTs_aft	708	617,1046	5,30191

## Findings

Both groups did not do well on the judgement task before the intervention. Only 26% of correct answers were recorded for the control group, while 37% of correct trials described the overall achievement of the intervention group (see Table1). However, the post-intervention test results demonstrate a significant improvement in the lexical decision for the intervention group -- 70% of valid correct trials (see table 2). In table 4, the data presented point to the correct and incorrect responses of both non-words and existing English words. As shown, the experimental group outperformed its counterpart as the post-intervention test results indicate an outstanding development in orthographic and spelling knowledge skills (64% of correct decisions over non-English words and 76% of correct trials on real words). The percentage scores imply that the intervention program targeting basic English spelling conventions of consistent and inconsistent words had a positive effect on the performance of the intervention group on the word recognition task compared to the control group's results which remained stagnant (error rate of incorrect trials over non-words was 65%. An error rate of 57% was also recorded about incorrect answers upon judging real English words):

Table 4: non-words incorrect trials Inc\_NW; non-words correct trials C\_NW; real words incorrect trials Inc\_RW; real words correct trials C\_RW

Groups (post-intervention results)		Cor vs. Inc trials over non words and real words	Frequency	Percentage
Control Group	English non-words	INC_NW	236	65,60%
		C_NW	124	34,40%
		Total	360	100%
	English real words	C_NW	1	0,30%
		INC_RW	200	57,50%
		C_RW	147	42,20%
		Total	348	100,00%
	Intervention Group	English non-words	INC_NW	127
C_NW			233	64,7
Total			360	100
English real words		INC_RW	81	23,3
		C_RW	267	76,7
		Total	348	100

Similarly, statistical significance was attested at the level of boosted response times. There was no significance in the mean scores of the control group as far as reaction times were concerned ( $P < 0,56$  before intervention;  $p < 0,65$  after intervention). However, as we observe from table 5 below, the mean scores for the response time in the intervention group are relatively significant especially when reading real words ( $M = 588$  ms before intervention/  $M = 577$  ms after intervention;  $p < 0,3$ ).

This means that reading speed positively changed as the subjects responded quickly and

accurately to stimuli items. Another important element demonstrated by the intervention group post-test results is the mean score of recognizing non-words both before and after the program ( $M = 610$  ms bef./  $M = 655$  ms aft.;  $p < 0,00$ ). In lexical decision tasks, the NO Latencies mark the use of phonological processing to identify ill-spelt words that adhere to a certain orthographic rule (readable pseudo-words in this context). Therefore, the subjects, by taking more time to make a response to lexical items, phonologically realized the irregularity of the words presented:

Table 5: Mean scores, standard deviations, and P value of RTs before and after intervention

Groups			Mean	Standard Dev.	p_value
Control Group	English non-words	RTs_bef	555,4371	13,26077	0,569
		RTs_aft	563,9654	8,67607	
	English real words	RTs_bef	539,273	13,16832	0,657
		RTs_aft	532,7388	8,54537	
Intervention Group	English non-words	RTs_bef	610,187	10,3086	0,000
		RTs_aft	655,3926	7,30024	
	English real words	RTs_bef	588,1349	9,49479	0,308
		RTs_aft	577,4964	7,11287	

## Discussions

The present study scrutinized the development of basic grapho-phonetic skills because of an online reading intervention program. The findings, as delineated in the previous section, revealed that improved orthographic processing, spelling knowledge and phonological awareness are precursors of rapid and accurate word identification which was measured by the lexical decision task. This study also revealed a strong correlation between orthographic processing and automatic word recognition especially when reading consistent high-frequency words. Subsequently, reading speed increasingly improved as the participants read words with direct letter-sound correspondences (Fender, 2003; Jiang, 2018).

On the one hand, reading unfamiliar words excessively relied on phonological processing, more particularly with non-words that sounded like real words (i.e., words that are unreal but follow a certain English spelling pattern). On the other hand, the lexical decision task showcased that the reading speed was affected when the subjects correctly judged pseudo words. The more words were familiar and consistently spelt, the more participants used orthographic processing skills to decode

words (Jiang, 2018). The more words were unfamiliar and quaint, the more participants used phonological processing skills and the more time they took before making correct decisions. Therefore, we can say that orthographic knowledge strongly correlated with reading fluency more than phonological processing.

## Recommendations and Future Research

Word integration, which measures the ability to integrate read words into long structures, is an ideal follow-up to a word recognition task. Under a comprehensive reading model, future research may delve into the various relationships between decoding skills (orthographic, phonological, and semantic sources) and integrating words into sentential contexts. Moreover, and given the fact that reading skills can be transferrable across languages (Abu Rabia & Shakkour, 2014), especially languages with alphabetic scripts, researchers are invited to check whether improved reading abilities from one language to another transfer irrespective of the direction, i.e., from L1 to L2 or vice versa.

## Research Limitations

This experimental study has some limitations. First, the hypotheses were tested



over a small-size research sample. A large population sample would have yielded more representative findings. Second, the number of stimuli presented in the lexical decision task was not sufficient; it should be extended taking into consideration such variables as low-frequency and vocabulary size. Additionally, there was no guarantee that the acquired skills would be maintained in the long run. This study did not provide tools to monitor progress and retention after taking the reinforced reading lessons. Finally, and in order to scrutinize the role of phonology in word identification, researchers usually devise homophonic and non-homophonic pairs to detect phonological processing skills in silent reading. However, in this experiment, only single words were presented one by one.

## Conclusion

The present study explores the contribution of an online intervention program in developing decoding skills among learners with reading difficulties. The administration of the phonics intervention brought about a remarkable development of decoding skills as well as reading speed. Lower-level processes, namely orthographic processing and phonological processing, are important in the access and retrieval of lexical items, thus facilitating word recognition.

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## APPENDIX A: LEXICAL DECISION TASK

Lexical Decision Test Stimuli			
Real Words		Pseudo Words	
Consistent Forms	Inconsistent Forms	Consistent Forms	Inconsistent Forms
heat meat beat	break great deaf	meaf reat lear	deak fleak
food shoot hoot	foot spook door	dase sabe	lare haid
slow low flow	plow mow bow	qow shmow clow	zow rmow kow
come done	gone bone	phint slint shrint	mivte clinte
fade plate	dais chain	bood boose lood	poot stook shkut
boat floor	board flood	shoth hoth	foth soth

## APPENDIX B: READING INTERVENTION TIERS

Phonics Intervention Lessons			
Tiers	Units		
<b>Consonants</b>	Consonant Phonemes /b/ /d/ /f/ /g/ /h/ /j/ /k/ /l/ /m/ /n/ /p/ /r/ /s/ /t/ /v/ /w/ /y/ /z/	Consonant Blends bl br cl dr fl fr gl pl pr sc sw sch sk sl sm sn spr str ld lf lk	Consonant Digraphs /th/ /ng/ /sh/ /ch/ /zh/ /wh
<b>Vowels</b>	Long & Short Vowels /eɪ/ /i:/ /aɪ/ /ju:/ /u:/ /e/ /i/ /ɔ/ /æ/	Vowel Diphthongs /ow/ 'cow' /oy/ 'toy'	R-Controlled Vowels /a (r)/ car /eɪ (r)/ hare /ɔ (r)/ door
<b>Spelling Rules</b>	<b>Sounds and Orthographic Forms "Vowel Digraphs"</b>		
	The sound /k/ 'c' / 'k' / 'ic' 'qu' / 'x' / 'ck' The sound /əʊ/ 'o - e' / '-ow' 'oa'	Single vowel followers '-ll' / 'ss' '-dge' / 'tch' The sound /aɪ/ 'I - e' '-igh'	The sound /eɪ/ '-ay' 'a - e' The sounds /ju:/ & /u:/ 'u - e' / '-ue' '-ew' / '-oo'
<b>Sight Words</b>	bike does buy call come could	always around because been before best	Fast first fire forget gave go



## THE USE OF RESEARCH POSTERS IN THE ELT CLASSROOM

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**Abstract.** The use of actual classroom posters is a blend of using technology and developing students' tactile senses. The students at the English Language School at the International Balkan University attend a one-year intensive language program. In order to implement alternative teaching methods and techniques, during the winter semester students participate in a research poster presentation project. The aims of the poster projects include: promoting team work, developing students' cooperation and collaborative skills, as well as their research skills, and learning English in a fun and creative way. A survey was conducted with 200 students in order to receive students' feedback on the poster project experience. According to the survey results, most students chose learning English in a fun and creative way and improving their team work skills both as the most important and the most interesting things they learned during the poster projects. Students found working with others and finding the right information on the internet to be the least appealing aspect of the project. They had most difficulties with reacting to teachers' and other students' comments, as well as working with other students and learning from them. In conclusion, students are generally in favour of alternative methods of teaching, such as learning English through making and presenting posters. Furthermore, teachers should consider the fact that students have not had much previous experience with team work and therefore need additional training to help them collaborate better and to learn how to respond to feedback and assessment of their work.

**Keywords:** *EFL, poster presentations, team work, research skills.*

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### Introduction

Posters are a valuable source of information and knowledge transfer. Transferring knowledge is both in the poster itself and being present to talk to an audience about it (Nycyk, 2018). In this paper the term poster refers to students' research posters made on paper or cardboard. These types of posters differ from the academic 'presentations that teachers attend at conferences', where 'the 'audience may ask questions and open up debates following a talk' (Munby, 2011: 163). The use of actual classroom posters is a blend of using technology and developing students' tactile senses, while increasing student interaction and collaboration. Such alternative teaching techniques are more than necessary in today's society because of students' dependence on technology, which

leads to more screen time and less face-to-face interaction. The study was conducted with students in the one-year intensive English language program, organized by the English Language School (ELS) for future students at International Balkan University IBU) in Skopje, North Macedonia. The language of instruction at IBU is English; therefore students whose proficiency is lower than B2 are obliged to attend the ELS for one academic year. During the winter semester students (A2 and B1 level) participate in a poster project for a period of three weeks. The aims of the poster projects include:

- promoting team work,
- developing students' cooperation and collaborative skills, as well as their research skills,
- learning English in a fun, engaging and creative way.

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The research poster provides students with the opportunity to be involved in an academic type of research while improving their English language skills. This is part of their preparation for the university setting in which they will be studying for the next four years. Previous studies by A. M. Wolfe & College (2006) have demonstrated that 94.7% of the respondents believe that oral presentations play a significant role in



their academic experience as well as future employability (98.9%). The 12 EFL teachers from the ELS unanimously agreed that some students are reluctant to participate in research poster projects. This research problem was the reason for conducting a study in order to a) receive students' feedback on the poster project experience; b) identify the challenges of research poster projects that students face; and c) to suggest ways of making research projects more effective. The study was designed to answer the following research questions:

1. What is the students' experience with the research poster presentation project?
2. What challenges do students face while working on the poster presentation? and
3. How can research poster presentation projects be made more effective?

The practicality of using research posters in the classroom in general has been widely acknowledged. According to Rief & M.A., (n.d.) students retain 10% of what they read, 20% of what they hear, 30% of what they see, 50% of what they see and hear, 70% of what they say, and 90% of what they say and do. Research posters enable students to say what they know based on the research they have done. The benefits of using them in the classroom are numerous. They increase students' level of interest and participation in the language activities (Tanner and Chapman, 2012), improve creativity and promote learner autonomy (Ozturk, 2017), enhance students' presentation skills (Conteh, 2018) as well as their research skills (D'Angelo, 2010), and provide students with opportunities to receive feedback from/give feedback to their peers (Billings & Halstead, 2012).

Studies conducted with university students suggest that research poster presentations promote vital communication skills for the 21st century learner (Ahmad, 2019; Boggu & Sundarsingh, 2015; Prichard & Ferreira, 2014). The project of preparing the poster itself is time consuming and involves a lot of effort, which in turn results into students experiencing 'a sense of achievement when they present it to an audience' and realizing how vital it is for training them to be successful in their future career (Boggu & Sundarsingh, 2015). Regarding language skills, a study by Ahmad (2019) indicated that digital posters have a significant effect on the reading comprehension and engagement of EFL students. He included thirty-three 3rd-year EFL college students and divided them

into a control and an experimental group. The Mann-Whitney U Test showed significant differences between the two groups in the posttest of engagement ( $U = 57.00, p < 0.05$ ) and reading comprehension ( $U = 70.00, p < 0.05$ ). In another study, with low-proficiency EFL learners, the hypothesis that poster presentations would lead to an increased rate of speaking, more vocabulary retention, and better affective effects was confirmed (Prichard, & Ferreira, 2014).

However, there are several drawbacks of traditional posters, such as the fact that they are a static final product (Cook, 2013) with a small audience, and once the presentation is over, they are frequently discarded in a trash bin (Cabrejas Penueles, 2013). On the other hand, digital (online, multimedia, electronic) posters are more convenient because of a) their multimodal nature; b) the hyperlinks, which save space (D'Angelo, 2016); and c) students can share their knowledge with large audiences (Pedwell et al., 2017). Nevertheless, the use of 'real' posters in the ELS presents a way of allowing students to merge their individual internet search with some quality time with their classmates. In addition, it bridges the gap between students of high and low-income families, who have little or no access to technical devices.

## Research methodology

A qualitative and quantitative research design was used to collect data using a survey as an instrument. The survey consisted of 15 questions, organized in the following way: 10 multiple choice questions where students could choose one answer only; 4 multiple choice questions where they could choose between one and three answers; and one open-ended question.

The participants were chosen through the convenient sampling method. All the 200 students at the English Language School were included in the survey. There were 120 boys and 80 girls, aged between 18 and 25. Their language proficiency ranged between A2 and B1, according to the CEFR for languages. The students came from several countries, including North Macedonia, Turkey, Albania, Bosnia and Herzegovina, Kosovo, Bulgaria, Montenegro and Serbia. Many of the students came from middle- or low-class families, from both rural and urban areas.

The procedure of the research poster presentation project was as follows:

## Week 1

Step 1: Students were provided with background information on making posters. Both the visual and language aspect were covered. Students from the Faculty of Art and Design at IBU gave a presentation on making posters in front of all ELS students. ELS teachers informed students on ways of finding necessary information.

Step 2: Students were divided in groups of 4 to 5. Teachers gave students a list of topics to choose from. However, students were allowed to suggest their own topics.

## Week 2

Step 3: Students worked after classes on their posters for one week.

Step 4: Teachers gave instructions on how groups should present their posters in front of their classmates and in front of a wider audience. They also explained the criteria used for choosing the best poster in class.

Step 5: Teachers checked posters and students' presentation notes for language mistakes.

## Week 3

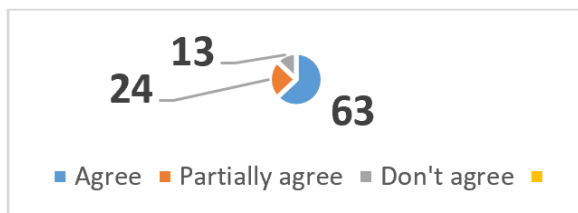
Step 6: Each group presented their poster in front of their classmates. The teacher chose the best poster or posters based on the assessment grid, which had previously been shown to students.

Step 7: The best posters from each class were displayed in the ELS hall and a poster competition is organized. A jury consisting of two assistants from the Faculty of Art and Design choose the first three best posters.

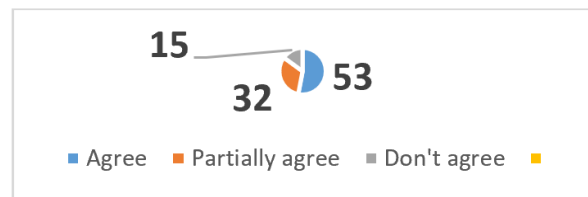
## Results and discussion

The results of the survey with the students from the English Language School are shown in the charts below.

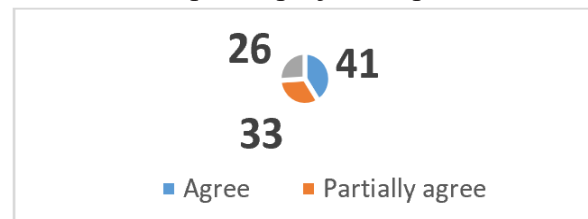
1. I enjoyed working in a group.



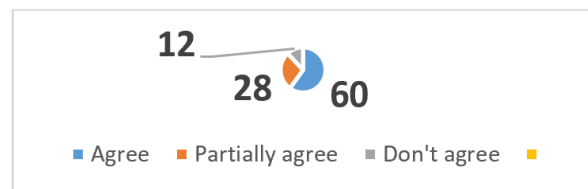
2. The poster project helped me develop my skill of listening to other students' point of view.



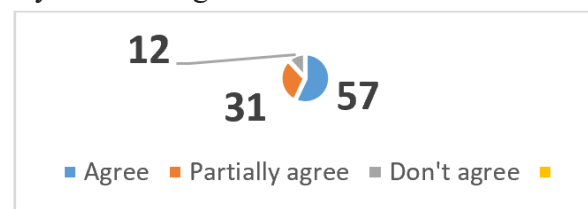
3. The poster project helped me



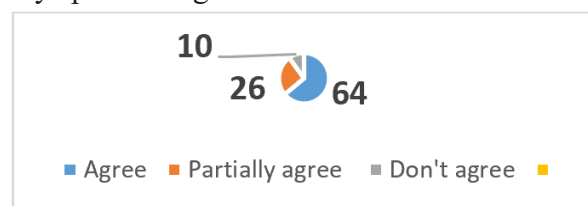
4. The poster project helped me improve my develop my time-management skills. research skills.



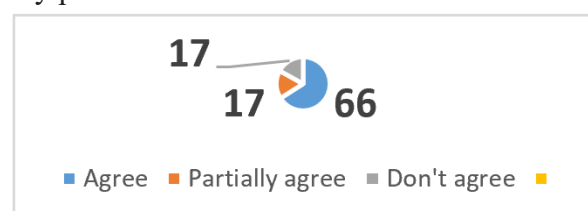
5. The poster project helped me improve my written English.



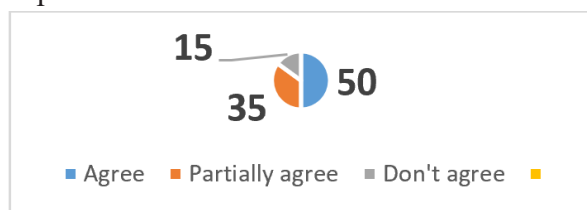
6. The poster project helped me improve my spoken English.



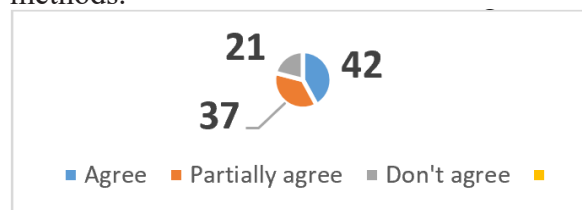
7. The poster project helped me improve my presentation skills



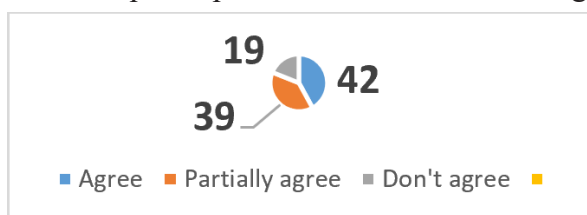
8. This project was a useful learning experience.



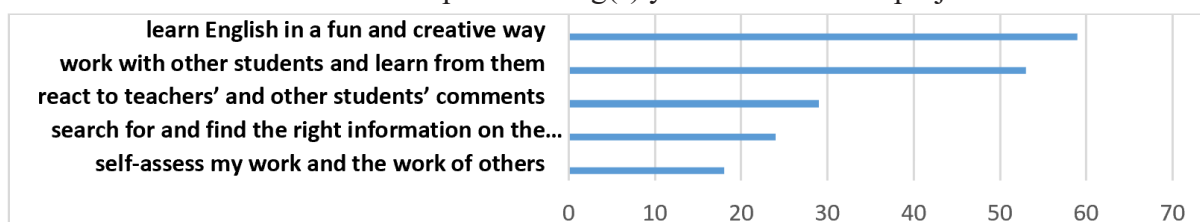
10. This poster project links theory to practice better than traditional teaching methods.



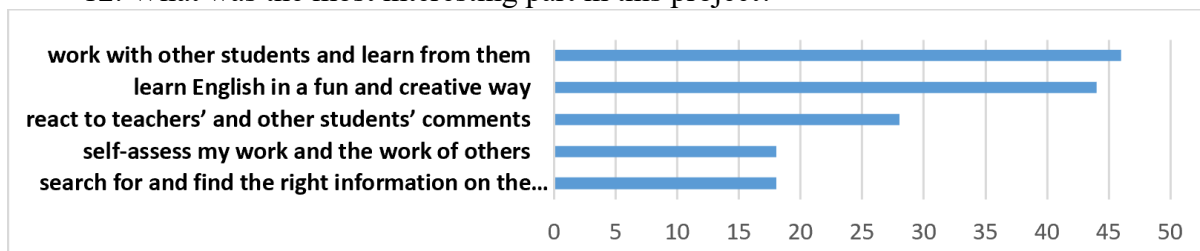
9. I prefer posters to traditional teaching.



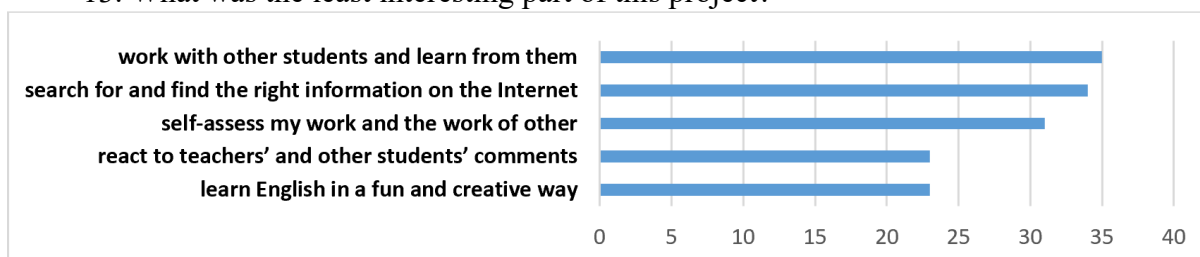
11. What is/ are the most important thing(s) you learned in this project?



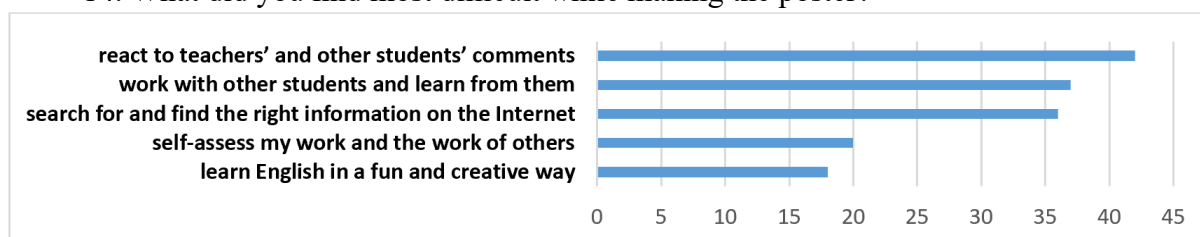
12. What was the most interesting part in this project?



13. What was the least interesting part of this project?



14. What did you find most difficult while making the poster?





15. How could the English Language School change the poster project to make it better?

Most of the students failed to provide answers to this question. Only 5 students suggested that it is the teachers who should choose the best posters because they were involved in the continuous assessment, while 4 students recommended that teachers check all posters for plagiarism prior to the competition, since one of the competing posters was later found to be plagiarized. Another four students said that teachers should intervene more often in students work as they progress with the project in order to urge the less active students to be more involved with the making of the project.

The results show that the majority of the students enjoyed working in a group. The poster project helped more than half of them in developing their skill of listening to other students' point of view. Approximately 60% of the respondents believe the poster project helped them improve their written and spoken English, and nearly the same percentage think the project enhanced their presentation and research skills. Less than half of the learners agreed that they developed their time-management skills through the poster presentation project (42%) and the same number replied they preferred posters to traditional teaching. Half of the students found the project a useful experience, with 35% partially agreeing to this statement.

The greatest benefit of working on the poster project was learning English in a fun and creative way, followed by working with other students and learning from them. The same was chosen as the most interesting part of the project. It is interesting to mention that collaboration with the other students was also chosen as the least interesting thing about the project, together with searching for and finding the right information on the internet, as well as assessing their own work and the work of others. The most difficult aspect of the poster project was knowing how to react to teachers' and other students' comments, followed by cooperating with the other students in the group and being able to find the necessary information.

According to the survey results more than half of the students agree with the aims of the research poster project, approximately a third of the students partially agree and less than 20% of the students do not agree with its aims. Most students chose learning English in

a fun and creative way and improving their team work skills both as the most important and the most interesting things they learned in the course of making and presenting, which is line with the previously mentioned aims of the poster project. Students chose working with others and looking for and finding the right information on the internet as the least interesting things. What students found most difficult was reacting to teachers' and other students' comments, as well as working with other students and learning from them.

The results helped the researcher answer the three research questions. Regarding the first question, the students had an overall positive experience with the research poster presentation project because they improved their language skills as well as their research, presentation and time-management skills. They were able to learn with and from their classmates, which made the process of learning English enjoyable and creative.

Concerning the second research question most students encountered difficulties in three main areas. The first one was accepting comments and remarks from their teachers and fellow students. The second one was effectively collaborating with the other students in the group, and the third challenge they faced was having the right research skills necessary for finding the right information when searching the internet. These findings indicate the need for training students how to provide and understand constructive feedback on their or other people's work, as well as for developing students' critical thinking skills, which would eventually facilitate the search for the information they need.

The third research question referred to ways of making the research poster presentation projects more effective. The small number of answers may be attributed to the following factors: 1) the relatively low language proficiency of the students involved in the project; 2) the fact that this was their first research poster with an academic approach; and 3) their lack of highly developed critical thinking skills. Students' suggestions mainly focused on the procedure for choosing the best poster. With technology at hand it is easy to find poster ideas and copy them. Therefore, image plagiarism checking programs should be used in order to detect potentially plagiarized posters. Fairness is another aspect of choosing the best poster. Teachers are directly involved and familiar with the work of the students in all the groups, which renders them adequately qualified for

choosing the best posters. Students' remarks demonstrate the importance of the competitive aspect of the research poster presentation, which seems to be a motivational factor for all students participating in the project. One more issue that should teachers should focus on is ways of increasing students' engagement by constantly monitoring students' work and the progress they are making. This could be done through checklists for all the students in each group. The items in the lists would include the activities each student has performed on a weekly basis, accompanied by a self-assessment grid, so that students can reflect on their work and be objective about their engagement in the project and the level of involvement of the other students.

## Conclusion

Students are generally in favour of alternative methods of teaching, such as learning English through making and presenting posters. Furthermore, teachers should be more aware of the fact that students have not had much previous experience with team and research work and therefore need additional training to help them collaborate better and to learn how to respond to other people's comments and assessment of their work.

### Further recommendations

Future studies may focus on the effectiveness of research poster projects through experimental designs. Additionally, particular language skills or 21st century skills that can be developed through research poster projects could be analyzed. Another aspect that could be explored is whether research posters can be used across different levels of language proficiency. Finally, the importance of research posters in higher education could be investigated into more detail.

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