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Global Language Online Support System (GLOSS):

To what extent does it enhance learner proficiency?

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IST 622, MIST, CSUMB (May 2010) Dr. Bude Su imqwer yuiopas lfghjklzx vbnmq

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I. Introduction

The purpose of this study is to evaluate the effectiveness of the Global Language Online Support System (GLOSS) in enhancing foreign language proficiency of DLI students, particularly Arabic language learners. GLOSS is an online self-learning module designed to help DLI students improve their foreign language skills. The methodology used to test the effectiveness of GLOSS involved comparing and analyzing pre-and post test reading and listening scores of two groups of students. Thirteen students from each group took a repeated measure exam (pre- and post-test). After taking the pre-test, both groups were given the same assigned curriculum and supplementary authentic materials. In addition, the first group (Group A) was given several hours of extra self-instructional GLOSS materials. Preand post-test scores from the two groups were then compared and analyzed to see if GLOSS has made a difference or not.

II. Methodology

a) The Prototype

The Global Language Online Support System (GLOSS) is an online learning module that contains more than 3,900 reading and listening lessons from 33 languages. According to the Defense Language Institute, "GLOSS online language lessons are developed for independent learners to provide them with the learning/teaching tools for improving their foreign language skills" (DLIFLC, 2003). Each lesson consists of 4 to 6 activities and each activity is accompanied with feedback that provides learners with explanations and tutoring. The reading and listening texts were taken from authentic sources such as newspapers, TV, radio, and the internet. The material covers all topics and ranges from simple short conversations to complex reports and articles. Lessons are classified according to topics such as the economy, politics, military, security, society, culture, science and technology. Topics are also categorized according to proficiency levels-1, 1+, 2, 2+, 3, 3+, and 4 (See Appendix 3). When a learner opens GLOSS, he/she has to select the language (e.g. Arabic), the skill (listening or reading), the topic (e.g. economy), and the level (e.g. 2). (DLIFLC, 2003)

b) Target Audience

The intended audience for instructional intervention is Arabic language learners at DLI. These learners are students who enroll in a 63-week intensive proficiency language program and who are required to be able to listen to and read foreign language texts at different domains and proficiency levels. The learners are native English speakers who study Arabic as a second language. Their broad educational attainment levels range from high school diplomas to graduate degrees, with the majority of students falling in the category of high school diploma with some college. The target group was selected from the 2nd semester, which is the midpoint of the program's timeline. Therefore, the intended cognitive domain at their level is a mastery of knowledge and comprehension. Learners are expected to interact with GLOSS lesson activities through individual self-instruction.

c) Expected Outcomes:

By completing the selected GLOSS online learning lessons, learners will be able to:

- 1) Understand the topic and main ideas.
- Recognize supporting details, facts, and essential elements of information.
- 3) Summarize, paraphrase, and understand contextual clues.

- 4) Comprehend vocabulary related to selected topics.
- 5) Expand their schema and knowledge about these topics.
- 6) Attain some structural and syntactical knowledge that aid their understanding of reading and listening texts.
- Demonstrate proficiency in reading short authentic reading texts and be able to understand short listening texts at news item levels.

d) Conditions and Process:

The test subjects are students who receive regular classroom instruction and take routine tests. The pre- and post-tests were scheduled and administered in accordance with the program's calendar agenda. Although GLOSS was included in as part of Group A students' program of study, GLOSS was not a mandatory part of the curriculum. The decision to incorporate GLOSS instruction within the DLI's Arabic Language curriculum was made by the teaching team, which is headed by one of the authors of this study. The intervention was implemented during regular class hours within the teaching schedule.

e) Pre-test Method and Instrument

The Pre-test consisted of two separate listening and reading tests. Each test contained several passages followed by 32 multiple choice questions. The students from the two groups (A and B) took the listening test in the morning and reading test in the afternoon. The following table shows listening and reading scores, along with letter grades for each group of students.

Group A (Experimental Group)				Group B	(Cont	rol G	roup)	
	Listening		Rea	ding		Liste	ning	Rea	ding
Student 1	29	A-	32	А	Student 1	26	B-	28	B+
Student 2	27	В	26	B-	Student 2	28	B+	30	A-
Student 3	22	C-	26	B-	Student 3	27	В	29	A-
Student 4	23	С	24	C+	Student 4	26	B-	20	D+
Student 5	31	А	32	А	Student 5	23	С	30	A-
Student 6	29	A-	32	А	Student 6	25	C+	31	А
Student 7	24	C+	27	В	Student 7	24	C+	28	B+
Student 8	29	A-	30	A-	Student 8	20	D+	26	B-
Student 9	22	C-	27	В	Student 9	27	В	29	A-
Student 10	25	C+	28	B+	Student 10	31	А	32	А
Student 11	23	С	26	B-	Student 11	23	С	28	B+
Student 12	26	B-	32	А	Student 12	23	С	23	С
Student 13	23	С	24	C+	Student 13	26	B-	27	В

f) Post-test Method and Instrument

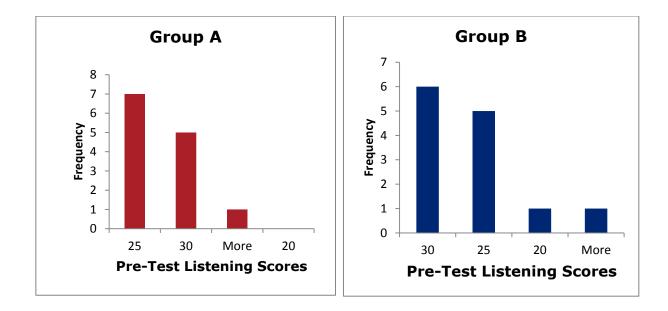
Like the pre-test, the post-test was also comprised of two separate listening and reading tests. Each test had several passages followed by 40 multiple choice questions. The students from the two groups (A and B) took the listening test in the first day and reading test in the second day. The following table shows listening and reading scores along with letter grades for each group of students.

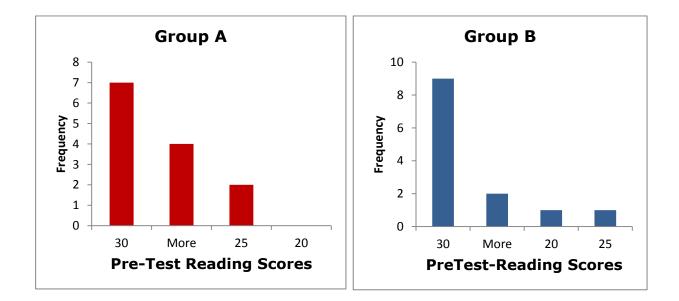
Group A (Experimental Group)			Group B (Control Group))			
	Listening Reading		Reading			Lister	ning	Rea	ding
Student 1	39	А	40	А	Student 1	28	С	27	C-
Student 2	36	B+	37	A-	Student 2	33	В	36	B+
Student 3	24	D	30	C+	Student 3	36	B+	35	B+
Student 4	33	В	33	В	Student 4	32	B-	34	В
Student 5	37	A-	37	A-	Student 5	33	В	32	B-
Student 6	36	B+	37	A-	Student 6	37	A-	35	B+
Student 7	31	B-	33	В	Student 7	37	A-	29	C+
Student 8	36	B+	37	A-	Student 8	29	C+	27	C-
Student 9	29	C+	31	B-	Student 9	35	B+	35	B+
Student 10	36	B+	35	B+	Student 10	36	B+	38	A-
Student 11	27	C-	31	B-	Student 11	34	В	37	A-
Student 12	36	B+	39	А	Student 12	30	C+	30	C+
Student 13	37	A-	37	A-	Student 13	33	В	33	В

III. Results

a) Entry Conditions:

The statistical analysis of the pre-test scores shows that there is no significant difference between the two groups in reading or listening. The mean is essentially the same for both groups (25.62 vs. 25.31 in listening, and 28.15 vs. 27.77 in reading for Group A and B respectively). Hypothesis testing also confirmed that there is no significant difference between the two groups' pre-test scores in listening or reading (see Appendix 1). The following two pairs of charts illustrate a comparison of the groups' performance in each skill.





Although the mean is essentially the same for both groups, the listening charts show that more students from Group B achieved higher scores (between 25 and 30) while the reading charts indicate that Group A has lower range of test scores than group B.

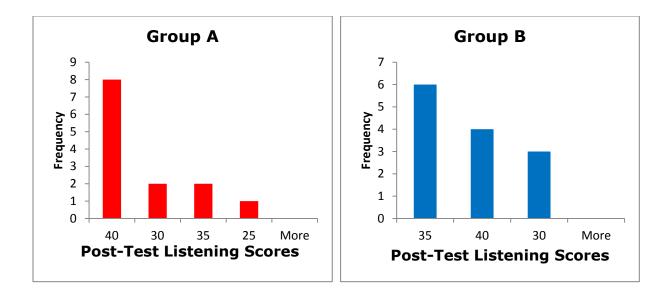
Based on the entry condition data (pre-test analysis), we can conclude that the performance of the two groups was identical. Overall, no group seemed to outperform the other.

b) Instruction

After taking the pre-test, both groups received 10 weeks of regular instruction from the curriculum and were provided with authentic supplementary materials. In addition, the experimental group (Group A) received 15 hours of GLOSS self-study materials for listening and 15 hours of GLOSS self-study materials for reading. The control group (Group B), was not provided with any GLOSS learning resources. Each hour of GLOSS online language lessons consisted of 4 to 6 activities. Group A students completed GLOSS lesson activities with little or no intervention from their teachers. The GLOSS lessons covered the same topics as the post tests, such as military/security, society (sports), geography (natural disaster), and science (health). These topics are similar to the subject matter covered by the authentic supplementary materials. This instruction was followed by a post-test taken by both groups as shown in the previous section.

c) Outcomes

The following pair of charts compares the two groups' post-test performance in listening.

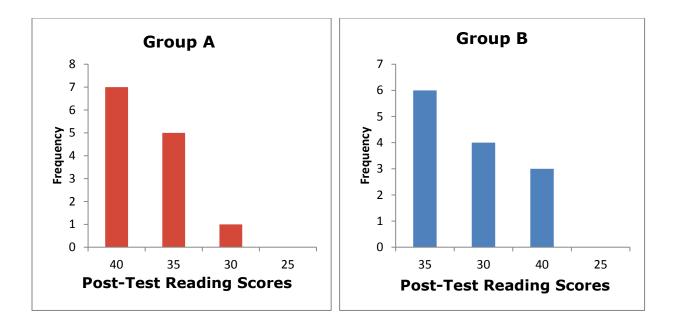


Post-instruction test analysis reveals the following facts about listening:

- 1) The means of the two groups are essentially the same (33.62 for Group A and 33.31 for Group B).
- 2) The variance (performance range) for Group A is higher than Group B (20.42 vs. 8.73).
- More students from Group A achieved higher scores (between 35 and 40) than Group B.

Since the means are identical in both pre-test and post-test, there's no significant evidence that the intervention (GLOSS) gives Group A an advantage over Group B (see Appendix 2).

The following pair of charts compares the two groups' performance in reading.



On the other hand, post-intervention test analysis for reading indicates that:

- 1) The mean for Group A is slightly higher than Group B (35.15 vs. 32.92).
- 2) The variance (performance range) for Group B is slightly higher than Group A (13.42 vs. 10.47).
- 3) More students in Group A achieved higher scores (35-40) than Group B.

Despite the mean difference between the two groups, hypothesis testing revealed that there is no significant statistical difference between the two groups. Therefore, there is no evidence to suggest that GLOSS (our intervention) is effective in improving foreign language skills (see Appendix 2) and we can conclude that GLOSS has not made a difference.

IV. Recommendations:

Based on the findings of this study, which show no evidence that Global Language Online Support System (GLOSS) could enhance the language proficiency of students better than other authentic supplemental materials, we suggest that: (1) teachers should not rely on GLOSS as a standalone learning tool. They must use a variety of other authentic materials to supplement the DLI curriculum; (2) When using GLOSS, teachers should review and select GLOSS activities that enhance listening and reading comprehension, such as those that focus on main ideas and supporting details; (3) Not all students can benefit equally from GLOSS self-instruction. Teachers should guide students through each lesson by selecting relevant tasks, for example, syntax and lexical activities can be used in the early stage of the program; and (4) Future studies should be conducted to evaluate GLOSS effectiveness at different stages of the program and allow more instructional time, as this project only assessed 15 hours of selfinstruction for each skill (listening and reading) and was only implemented during the program's midpoint instructional period.

V. Summary

This goal of this project was to assess the extent to which Global Language Online Support System (GLOSS) can enhance the foreign language proficiency of DLI students. Our main target audience was Arabic language learners. Two sister classes (13 students each) at the halfway point of the program were selected as subjects for this study. The pre-test scores of the two groups in reading and listening were compared, and the analysis indicated that there were no performance differences within the two groups. Following the pre-test, both groups were exposed to 10 weeks of instruction from the regular curriculum and provided with authentic supplementary materials. Additionally, the first group (Group A) was given extra 15 hours of self-instruction from GLOSS in reading as well as listening. After this intervention, both groups took post-tests in reading and listening. Again, the post intervention scores were compared and analyzed to see if GLOSS had made a difference. Despite the slight variation that in reading, the overall performance of the two groups did not reflect statistically significant differences. One limitation of this study was that the intervention had occurred in the middle of the program and was executed for a limited period of time. There's no information available to indicate that the result would be different, had GLOSS been implemented at the beginning of the program and carried out for several weeks instead of several hours. The other limitation is that not all students can benefit equally from GLOSS as variances in performance indicated. We also do not know what the outcome would be if the students were guided and directed to specific activities.

VI. References

Defense Language Institute's Foreign Language Center. (2003). Global

Language Online Support System. Retrieved May 5, 2010 from http://gloss.dliflc.edu/search.aspx

VII. Appendixes

a) Appendix 1: Pre-Test

1- T-Test for Listening Pre-test Scores for Group A and B

t-Test: Paired Two Sample for Means					
	Group A	Group B			
Mean	25.61538462	25.30769231			
Variance	9.58974359	7.730769231			
Observations	13	13			
Pearson Correlation	-0.362568033				
Hypothesized Mean					
Difference	0				
df	12				
t Stat	0.228540337				
P(T<=t) one-tail	0.41153722				
t Critical one-tail	1.782287548				
P(T<=t) two-tail	0.82307444				
t Critical two-tail	2.178812827				

2- T-Test for Reading Pre-test Scores for Group A and B

t-Test: Paired Two Sample for Means				
	Group A	Group B		
Mean	28.15385	27.7692		
Variance	9.474359	10.6923		
Observations	13	13		
Pearson Correlation	0.210811			
Hypothesized Mean				
Difference	0			
df	12			
t Stat	0.347524			
P(T<=t) one-tail	0.367109			
t Critical one-tail	1.782288			
P(T<=t) two-tail	0.734217			
t Critical two-tail	2.178813			

3-	Descriptive Statistical Data	for Pre-test Listening Scores for
	Group A and B	

GROUP A				
Mean	25.61538			
Standard Error	0.858879			
Median	25			
Mode	29			
Standard				
Deviation	3.096731			
Sample Variance	9.589744			
Kurtosis	-1.33791			
Skewness	0.40632			
Range	9			
Minimum	22			
Maximum	31			
Sum	333			
Count	13			

GROUP B			
Mean	25.307692		
Standard Error	0.7711514		
Median	26		
Mode	26		
Standard			
Deviation	2.7804261		
Sample Variance	7.7307692		
Kurtosis	0.6895446		
Skewness	0.1190724		
Range	11		
Minimum	20		
Maximum	31		
Sum	329		
Count	13		

4- Descriptive Statistical Data for Pre-test Reading Scores for Group A and B

GROUP A			
Mean	28.153846		
Standard Error	0.853696		
Median	27		
Mode	32		
Standard			
Deviation	3.0780447		
Sample Variance	9.474359		
Kurtosis	-1.545707		
Skewness	0.1941136		
Range	8		
Minimum	24		
Maximum	32		
Sum	366		
Count	13		

GROUP B				
Mean	27.76923			
Standard Error	0.90691			
Median	28			
Mode	28			
Standard				
Deviation	3.269909			
Sample Variance	10.69231			
Kurtosis	1.686047			
Skewness	-1.26198			
Range	12			
Minimum	20			
Maximum	32			
Sum	361			
Count	13			

b) Appendix 2: Post-Test

t-Test: Paired Two Sample for Means					
	Group A	Group B			
Mean	33.61538462	33.30769231			
Variance	20.42307692	8.730769231			
Observations	13	13			
Pearson Correlation	-0.508375392				
Hypothesized Mean Difference	0				
df	12				
t Stat	0.169714113				
P(T<=t) one-tail	0.434031234				
t Critical one-tail	1.782287548				
P(T<=t) two-tail	0.868062468				
t Critical two-tail	2.178812827				

1- T-Test for Listening Post-test Scores for Group A and B

2- T-Test for Reading Post-test Scores for Group A and B

t-Test: Paired Two Sample for Means					
	Group A	Group B			
Mean	35.153846	32.92307692			
Variance	10.474359	13.41025641			
Observations	13	13			
Pearson Correlation	-0.5192355				
Hypothesized Mean Difference	0				
df	12				
t Stat	1.3369593				
P(T<=t) one-tail	0.1030146				
t Critical one-tail	1.7822875				
P(T<=t) two-tail	0.2060293				
t Critical two-tail	2.1788128				

3- Descriptive Statistical Data for Post-test Listening Scores for Group A and B

GROUP A		
Mean	33.6153846	
Standard Error	1.25339775	
Median	36	
Mode	36	
Standard Deviation	4.51918985	
Sample Variance	20.4230769	
Kurtosis	0.1151116	
Skewness	-1.0600991	
Range	15	
Minimum	24	
Maximum	39	
Sum	437	
Count	13	

GROUP B		
Mean	33.30769	
Standard Error	0.819511	
Median	33	
Mode	33	
Standard Deviation	2.954788	
Sample Variance	8.730769	
Kurtosis	-0.76934	
Skewness	-0.4699	
Range	9	
Minimum	28	
Maximum	37	
Sum	433	
Count	13	

4- Descriptive Statistical Data for Post-test Reading Scores for Group A and B

GROUP A		
Mean	35.1538	
Standard Error	0.89762	
Median	37	
Mode	37	
Standard Deviation	3.23641	
Sample Variance	10.4744	
Kurtosis	-1.197	
Skewness	-0.2849	
Range	10	
Minimum	30	
Maximum	40	
Sum	457	
Count	13	

GROUP B		
Mean	32.92308	
Standard Error	1.015657	
Median	34	
Mode	35	
Standard Deviation	3.662002	
Sample Variance	13.41026	
Kurtosis	-0.968103	
Skewness	-0.493058	
Range	11	
Minimum	27	
Maximum	38	
Sum	428	
Count	13	

c) Appendix 3: Global Language Online Support System (GLOSS) Webpage

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GLOSS Links Search Resources Diagnostic Assessment GLOSS Administration	 GLOSS online lang them with the learn Reading and listenin radio broadcasts, e accompanied with i explanations and tu With more than 5,6 	ing/teaching tools for ng lessons are base etc.) and consist of 4 n-depth feedback th utoring just like an a 500 instructional hou	eveloped for indepe or improving their fo d on authentic mate to 6 activities. The nat provide learners ttentive and experie	nced teacher would do. SS is a valuable resource
	▼ Language			
	 All 	Albanian	Arabic	🔘 Azerbaijani
	Chinese	Croatian	© Dari	© Egyptian
	C French	© Greek	Culf-Arabic	O Hausa
	C Hebrew	🔘 Hindi	🔘 Indonesian	🔘 Iraqi
	Japanese	C Korean	🔘 Kurdish-Sorani	🔘 Kurmanji
	C Levantine	Pashto	Persian	Portuguese
	🔘 Punjabi	Russian	Serbian	Spanish
	🔘 Swahili	🔘 Tagalog	🔘 Thai	C Turkish
	🔘 Urdu	🔘 Uzbek		
	Proficiency Level			
	V 1	 ✓ 1+	✓ 1+/2	☑ 2
	 2+	3	 3+	☑ 4
	▼ Skil / Modality ☑ Listening	Reading		
	🗢 Topical Domain			
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	Military	Politics	Science Science	Security
	Society	Technology		
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Selected Languages: Arabic

Selected Levels: 1,1+,2

Selected Topics: Culture, Environment, Geography, Military, Science, Security, Society

152 results

New Search

Topic	Lesson Title 🛆	Description	Competence	Downloads
 Geography Level 2 	"Kan ya ma kan Street" Restaurant Vieu Source 💽 Info	Description of an Arabic restaurant	Discourse	No Downloads Available
Military	"Swift Sword II" Maneuvers View Source 💽 Info	An article on military maneuvers in an Arabic country	Lexical	No Downloads Available
Culture	A Call to Artists to Move Their Paintings Out of Exhibition Halls View Source () Info	An article describing the availability of art in the Arab world	Lexical	No Downloads Available
Society	A Conversation at a University View Source (Info	A recorded audio about a conversation at a University	Lexical	No Downloads Available
Culture	A Family in Yemen	A recorded audio about a family in Yemen	Lexical	No Downloads Available
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	I Glossary I Source I Info I Resources I Tutorial I Feedback
	مناورة «السيف السريع 2»
	USECRIPTION 1. Think about the meaning of some military terminology. 2. Practice how these military terms work in sentences. 3. Extract the main elevenest of information from the text. 4. Discriminate between verbs that carry the main information and those that do not. 5. Determine which ideas to retain and which ones to exclude from a summary.
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