

بسم الله الرحمن الرحيم



-C-02-50-2-





شبكة المعلومات الجامعية التوثيق الالكتروني والميكرونيلم





جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة يعيدا عن الغيار





Ain Shams University Faculty of Education

Developing the Preparatory Students' Critical Writing through Virtual Reality Environmental Context

Thesis Submitted in Partial Fulfillment of the Requirements for Master Degree in Education, Curriculum and Instruction (TEFL)

By

Bassem Nabil Shawquy El-Ganzoury

English Teacher

Ministry of Defense Language Institute (MODLI, Cairo, Egypt)

Supervised By

Dr. Asmaa Ghanem Gheith

Professor of Curriculum & Instruction (TEFL)

Dr. Hanan Muhammed Hafez

Professor of Curriculum & Instruction (TFFL)

2019

Acknowledgements

First and foremost thanks to Allah, the most Gracious and Merciful I am really pleased to have the opportunity to be supervised by Dr. *Asmaa Ghanem Gheith*, Professor of Curriculum and Instruction, Faculty of Education, Ain Shams University. She supported and guided me since the first day I started this study. Thanking her is not enough for being helpful and caring to finish this study as soon as possible. I also owe gratitude to Dr. Hanan Hafez, head of Curriculum and Instruction department, Faculty of Education, Ain Shams University for allowing me to work under her supervision.

Thanks are extended to *Mr. Sayed El- Kholy*, ex-principle of El-Masria Integrated International School, God bless his soul, for his approval to apply the program in the school. He was totally encouraging. Thanks for his constant support for all my requirements during administrating the program.

All my heartily gratitude goes to my family; my father *councilor/*Nabil El-Ganzoury, my mother Prof. Safy Al-Rafay and my brother Dr.

Islam El-Ganzoury who never felt hesitated to support me and did not save any effort to push me forward until the work is all done.

Finally, I want to thank every single student who participated in my program and sacrificed their summer vacation to attend all sessions of the program without any complaining.

i

Title: Developing the Preparatory Stage Pupils' EFL Critical Writing Abilities through a Virtual

Reality Environmental Context

Researcher: Bassem Nabil Shawquy El-Ganzoury, teacher at MODLI, Cairo, Egypt

Degree: Master degree in Education, Curriculum and Instruction (TEFL)

Faculty of Education, Ain Shams University,

Supervisors: Dr. Asmaa Ghanem & Dr. Hanan Hafez

Ain Shams University, Faculty of Education, Curriculum & Instruction: TEFL Department,

Cairo, Egypt

Academic year: 2018-2019

Abstract

The purpose of the present study was to investigate the effectiveness of using virtual reality

goggles as a virtual context in developing the preparatory school students' critical writing.

Participants of the present study were 30 preparatory school stage students (N=30). The

researcher used a pre/posttest to examine the participants' critical writing and a critical writing

checklist. A virtual reality goggles program was administered to the participating students in the

summer vacation of the school year 2017-2018 at El Masria Integrated International School in

10th of Ramadan city, El Sharqia. Administration lasted for 90 days. Results proved that the

program was effective in developing the participating students' critical writing abilities and

writing appropriateness as well. Pedagogical implications and recommendations, as well as

suggestions for further studies were provided.

Key words: Virtual Reality – Critical writing– Virtual reality goggles.

Table of contents

Abstract		i
Acknowledgme	ent	ii
List of Abbrevi	ation	iii
List of Tables		iv
List of Figures		\mathbf{v}
Chapter one: B	ackground and problem	1-16
1.1	Introduction	1
1.2	Context of the problem	7
1.3	Pilot study	10
1.4	Statement of the problem	12
1.5	Study questions	12
1.6	Hypothesis	13
1.7	Delimitations	13
1.8	Significance of the study	14
1.9	Definition of terms	14
Chapter two: R	Review of literature and related st	udies
2.1	Virtual reality in practice	17
2.1.1	Components of virtual reality	21
2.1.2	Importance of virtual reality	23
2.1.3	Virtual reality in education	24
2.1.4	Virtual reality educational possibilities	28
2.1.5	Virtual reality in English language learning	31
2.1.6	Disadvantages of virtual reality	33
2.2	Critical writing	34
2.2.1	Characteristics of critical	36
,,	writing	20
2.2.2	Teaching critical writing	39

2.3	Environmental issues and	43
2.3.1	EFL Cultural issues and EFL	46
2.3.2	Teaching critical writing in	50
	different contexts	
2.4	Virtual reality and critical writing in various	53
	environmental contexts Commentary	54
Chapter three: 1	Method	59-79
3.1	Research design	58
3.2	Participants	59
3.4	Instruments	59
3.5	List of critical writing abilities	59
3.6	Critical writing pre-post test	62
3.7	Critical writing rubric	66
3.8	Virtual reality based	67
	program	
3.8.1	Aim	67
3.8.2	Objectives	67
3.8.3	Description	68
3.8.4	Sources	69
3.9	Duration of the program	69
3.10	Teaching strategies	69
3.11	Assessment	71
3.12	Content of the program	71
3.13	Instructional aids and	74
	equipment	
3.14	Scoring system	74
3.15	Applying the Program	75

3.16	Administrative and ethical	76
	considerations	
Chapter four: S	Statistical analysis and results	78-99
4.1	Testing the second	80
	hypothesis	
4.2	Testing the second	
	hypothesis	
4.3	Discussion of results	82
4.4	Qualitative assessment of	85
	students' critical production	
4.5	General remarks concerning	91
	students before	
	administration	
4.6	General remarks concerning	0.0
	students during administration	92
4.7	Changes of students'	93
•• /	performance	
4.8	Conclusions	95
	mary, conclusions and	
recommendations	•	
97-103		
5.1	Introduction	97
5.2	Summary	97
5.3	Discussion of results	99
5.4	Pedagogical implications	101
5.5	Recommendations	102
5.6	Suggestions for further researches	102
References		104
Appendices		
Appendix (A)		117

Appendix (B)	Test of pilot study	119
Appendix (C)	Critical writing abilities list	121
Appendix (D)	Students consent agreement	122
Appendix (E) Parents' introduction to the		123
	program	
Appendix (F)	Rubric	124
Appendix (G)	Samples of students' pre test	125
Appendix (H)	Samples of students' post test	129

List of abbreviation

Virtual reality VR

Critical writing CW

Virtual reality goggles VRGs

Virtual reality technologies VRTs

List of tables

Table (1) the correlation coefficient between every ability's	s score and
the total score of the test	65

Table (2) T test results of the means of the students' results in the pre and posttest of the critical writing abilities 79