

Copyright is owned by the Author of the thesis. Permission is given for a copy to be downloaded by an individual for the purpose of research and private study only. The thesis may not be reproduced elsewhere without the permission of the Author.

**Senior secondary school students' engagement within a
blended learning course: An exploratory case study**

A thesis presented in partial fulfilment of the requirements for the degree of

**Master of Education
in
e-learning**

**Massey University
Manawatu
New Zealand**

Gaye Bloomfield

2016

Abstract

This research presents an exploration of student engagement within a blended learning course at a New Zealand secondary school. Growing numbers of secondary school students are participating in blended learning courses with both face-to-face and online teaching and learning experiences. However, the uptake and use of blended learning is not matched by an understanding of the nature of senior secondary students' behavioural, emotional and cognitive engagement. There are also gaps in understanding about approaches to learning that aid student engagement in a blended learning context.

To address this gap in the research, case study methodology was used over four weeks with seven Year 12 students and the teacher of their blended learning course. A qualitative analysis of observations, online usage, document analysis and interviews was undertaken to determine the nature of engagement within the blended learning activities available in one unit of learning.

The findings suggest that engaging senior secondary students in a blended learning environment involves a carefully considered and complex mix of cognitively and emotionally engaging activities. Three mechanisms that aided engagement with learning in this blended learning context were the fostering of a learning purpose, the use of scaffolds and providing the opportunity for the learner to personalise their activities. This study contributes to the field of secondary school blended learning by supporting and deepening the literature base about how senior secondary students engage with blended learning activities.

Acknowledgements

Conducting this research and writing this thesis has only been possible with help from the following people:

Dr Maggie Hartnett and Dr Alison Sewell: Thank you for the detailed feedback and guidance at every stage of this research and for cajoling me back on track as I disappeared off down yet another rabbit hole. My thinking skills and ability to write have improved due to your supportive and patient approach. Thank you for your perseverance.

The participants in this study: Thank you for allowing me to learn more about how blended learning happens and for giving up your time to take part in an interview. Your open and honest responses were insightful and I really appreciate your willingness to be involved.

The Ministry of Education: I was awarded a Teacher's Study Leave Award in 2015. Without this award, I would not have been in a position to conduct this research.

The Board of Trustees: Thank you for supporting my application and releasing me from my teaching position in 2015. It has been a remarkable opportunity that I am truly grateful for.

Finally, I want to thank my family. Your support has meant everything. I appreciate every cup of tea and every time you let me get on with my writing. Now, it is time to celebrate.

Table of Contents

DECLARATION	I
ABSTRACT	II
ACKNOWLEDGEMENTS	III
TABLE OF CONTENTS	IV
LIST OF TABLES AND FIGURES	VII
LIST OF TABLES	VII
LIST OF FIGURES.....	VII
CHAPTER ONE: INTRODUCTION	1
1.1 INTRODUCTION AND RATIONALE FOR STUDY.....	1
1.2 PURPOSE OF THE RESEARCH PROJECT	3
1.3 RESEARCH SETTING	3
1.4 RESEARCH AIM AND QUESTIONS.....	4
1.5 STRUCTURE OF THE THESIS.....	4
CHAPTER TWO: LITERATURE REVIEW	6
2.1 INTRODUCTION.....	6
2.2 BLENDED LEARNING	7
2.2.1 <i>e-learning</i>	7
2.2.2 <i>What is blended learning?</i>	8
2.2.3 <i>Blended learning pedagogy</i>	8
2.2.4 <i>Blended learning technologies</i>	10
2.3 BLENDED LEARNING RESEARCH	12
2.3.1 <i>Blended learning in higher education</i>	12
2.3.2 <i>Blended learning in secondary education</i>	13
2.4 STUDENT ENGAGEMENT	14
2.5 SUPPORTING STUDENT ENGAGEMENT.....	16
2.5.1 <i>Teacher presence</i>	17
2.5.2 <i>Social presence</i>	18
2.5.3 <i>Cognitive presence</i>	19
2.6 STUDENT ENGAGEMENT IN BLENDED LEARNING CONTEXTS	19
2.7 SUMMARY	23
CHAPTER THREE: METHODOLOGY	24
3.1 INTRODUCTION.....	24
3.2 FOCUS OF THE INVESTIGATION	24
3.3 RESEARCH QUESTIONS	24
3.4 RESEARCH PARADIGM	25
3.4.1 <i>Constructivism</i>	25
3.4.2 <i>Qualitative research: Case study research design</i>	26
3.5 DESCRIPTION OF THE CASE.....	27
3.5.1 <i>The research site</i>	28
3.5.2 <i>The participants</i>	28
3.5.3 <i>Blended learning context</i>	28

3.6 DATA COLLECTION METHODS	29
3.6.1 Observations	29
3.6.2 Online usage history	31
3.6.3 Interviews.....	32
3.6.4 Document analysis	32
3.6.5 Gaining access to the research site, data collection and analysis	33
3.7 DATA ANALYSIS	36
3.8 ENSURING QUALITY	36
3.9 ETHICAL CONSIDERATIONS	38
3.9.1 Informed consent.....	38
3.9.2 Protection from harm	38
3.9.3 Anonymity and confidentiality.....	39
3.9.4 Potential conflict of interest.....	40
3.10 SUMMARY.....	41
CHAPTER FOUR: FINDINGS	43
4.1 INTRODUCTION.....	43
4.2 RESEARCH QUESTION ONE: <i>HOW DO STUDENTS ENGAGE WITH THE LEARNING ACTIVITIES AVAILABLE IN A SENIOR SECONDARY BLENDED LEARNING COURSE?</i>	43
4.3 ONLINE OPPORTUNITIES.....	44
4.3.1 Activities were completed	44
4.3.2 Self-paced online tasks	45
4.3.3 Collaborative online tasks.....	46
4.3.4 Enjoyment with online tasks.....	48
4.3.5 Analytical online tasks.....	50
4.4 OFFLINE LEARNING ACTIVITIES.....	51
4.4.1 Offline tasks to promote self-paced learning.....	52
4.4.2 Offline tasks to promote collaboration	52
4.4.3 Offline tasks to promote enjoyment.....	53
4.4.4 Offline tasks to promote critical thinking	54
4.5 RESEARCH QUESTION TWO: WHAT APPROACHES CAN AID ENGAGEMENT IN A BLENDED LEARNING CONTEXT WITHIN A SENIOR SECONDARY SCHOOL COURSE?.....	54
4.6 STUDENTS' PERSPECTIVE OF ENGAGEMENT	55
4.6.1 Personalisation	55
4.6.2 "Getting into it"	56
4.6.3 Talking to people	57
4.6.4 Being challenged to think	57
4.6.5 Scaffolding learning	58
4.7 TEACHER'S PERSPECTIVE ON ENGAGEMENT	60
4.7.1 Engagement through enjoyment.....	60
4.7.2 Engagement through knowing and thinking	61
4.7.3 Engagement through scaffolding	61
4.8 SUMMARY	62
CHAPTER FIVE: DISCUSSION	64
5.1 INTRODUCTION.....	64
5.2. STUDENTS' ENGAGEMENT WITH THE LEARNING ACTIVITIES.....	64
5.2.1 Behavioural engagement.....	66
5.2.2 Emotional engagement.....	67
5.2.3 Cognitive engagement.....	68
5.3 APPROACHES THAT AID ENGAGEMENT	69
5.3.1 Purpose aids engagement.....	71
5.3.2 Scaffolding aids engagement.....	72
5.3.3 Personalisation aids engagement	73
5.4 SUMMARY	75

CHAPTER SIX: CONCLUSION	77
6.1 INTRODUCTION.....	77
6.2 QUESTION ONE: <i>HOW DO STUDENTS ENGAGE WITH THE LEARNING ACTIVITIES AVAILABLE WITHIN A BLENDED LEARNING SENIOR SECONDARY COURSE?</i>	77
6.3 QUESTION TWO: <i>WHAT APPROACHES CAN AID ENGAGEMENT IN A BLENDED LEARNING CONTEXT WITHIN A SENIOR SECONDARY SCHOOL COURSE?</i>	78
6.4 IMPLICATIONS OF THIS RESEARCH PROJECT	78
6.5 LIMITATIONS OF THIS RESEARCH	79
6.6 RECOMMENDATIONS FOR FUTURE RESEARCH	79
6.7 FINAL THOUGHTS	81
REFERENCES	82
APPENDICES.....	89
APPENDIX ONE: ETHICAL APPROVAL.....	89
APPENDIX TWO: LETTER TO BOARD OF TRUSTEES.....	90
APPENDIX THREE: STUDENT INFORMATION SHEET	96
APPENDIX FOUR: TEACHER INFORMATION SHEET.....	98
APPENDIX FIVE: STUDENT CONSENT FORM	100
APPENDIX SIX: TEACHER CONSENT FORM	101
APPENDIX SEVEN: NETWORK ADMINISTRATOR CONFIDENTIALITY AGREEMENT.....	102
APPENDIX EIGHT: TRANSCRIBER CONFIDENTIALITY AGREEMENT	103
APPENDIX NINE: SEMI-STRUCTURED INTERVIEW QUESTIONS FOR STUDENTS	104
APPENDIX TEN: SEMI-STRUCTURED INTERVIEW QUESTIONS FOR THE TEACHER.....	107
APPENDIX ELEVEN: EXAMPLES OF WEB LOG DATA FROM STUDENTS SIX AND STUDENT FOUR.....	109

List of Tables and Figures

List of Tables

TABLE 2.1 A FRAMEWORK FOR CONSIDERING ENGAGEMENT IN A BLENDED LEARNING ENVIRONMENT. JEFFREY ET AL, 2014.	21
TABLE 4. 1 ONLINE ACTIVITIES COMPLETED DURING OBSERVATIONS ONE-SIX.....	45
TABLE 4.2 OFFLINE TASKS TO PROMOTE SELF-PACED LEARNING.....	52

List of Figures

FIGURE 2.1: COMMUNITY OF INQUIRY FRAMEWORK (GARRISON ET AL., 2001).....	17
---	----