

TABLE OF CONTENTS

	page
COVER	
FINAL PROJECT AUTHENTICITY STATEMENT	
FINAL PROJECT SUPERVISOR'S APPROVAL FORM	
FINAL PROJECT EXAMINER PANEL'S APPROVAL FORM	
ABSTRACT	v
ABSTRAK	vi
FOREWORD.....	vii
TABLE OF CONTENTS	x
LIST OF FIGURES	xiv
LIST OF TABLES	xv
LIST OF CHARTS	xvi
LIST OF APPENDICES	xvii
CHAPTER I INTRODUCTION	1
1.1 Background.....	1
1.2 Research Question	5
1.3 Purpose of the Study.....	5
1.4 Benefits of the Study	5
1.5 Terminology	6
1.5.1 Behavioral Engagement	6
1.5.2 Numbered Heads Together (NHT)	7
1.5.3 Cooperative Learning.....	7
CHAPTER II LITERATURE REVIEW.....	8

2.1	Engagement	8
2.1.1	The Definition of Engagement.....	8
2.1.2	The Christian Perspective of Students' Engagement.....	9
2.2	Behavioral Engagement.....	10
2.2.1	The Definition of Behavioral Engagement.....	11
2.2.2	The Forms of Behavioral Engagement	12
2.2.3	The Indicator of Students' Behavioral Engagement	13
2.3	Personal Development of Seventh Grader	13
2.4	Cooperative Learning	15
2.4.1	The Definition of Cooperative Learning.....	15
2.4.2	The Purpose of Cooperative Learning	16
2.4.3	The Christian Perspective of Cooperative Learning	17
2.5	Numbered Heads Together (NHT)	18
2.5.1	The Definition of Numbered Heads Together(NHT)	18
2.5.2	The Advantages and Disadvantages of Numbered Heads Together (NHT).....	19
2.6	Mathematics	20
2.6.1	The Christian Perspective of Mathematics	21
2.7	The Connection Between Students' Behavioral Engagement with Numbered Heads Together (NHT)	22
CHAPTER III RESEARCH METHODOLOGY	25	
3.1	Research Method	25
3.2	Research Subject, Place, and Time.....	27
3.3	Research Procedure	28

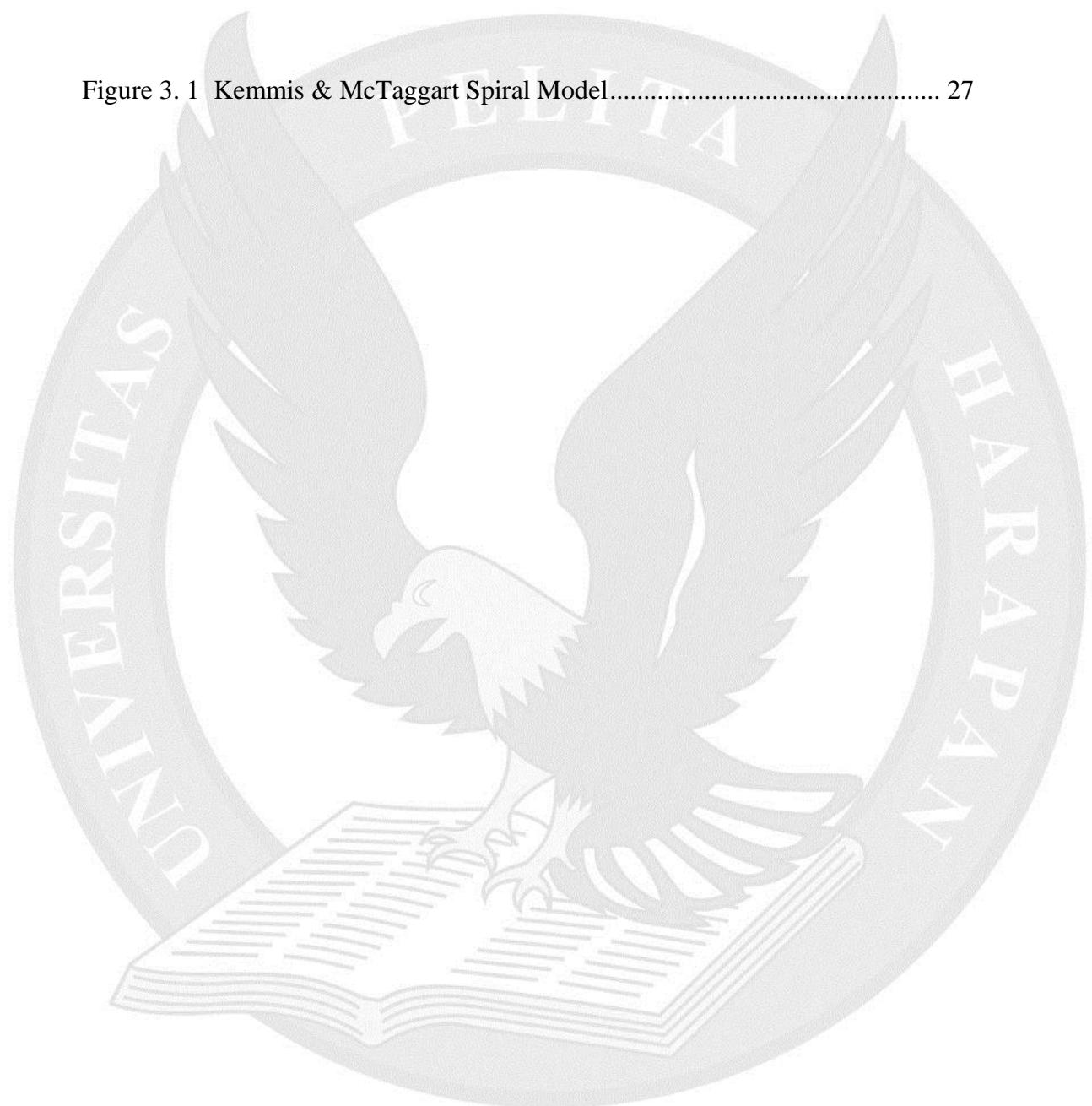
3.3.1	Preparation Stage	28
3.3.2	Cycle Stage	30
3.4	Cycle Sustainability Criteria.....	33
3.5	Data Collection and Research Instruments.....	35
3.5.1	Observation	35
3.5.2	Questionnaire	36
3.5.3	Mentor Feedback	37
3.5.4	Reflective Journal	37
3.6	Validity and Triangulation	41
3.7	Data Analysis.....	41
CHAPTER IV ANALYSIS AND DISCUSSION	44	
4.1	Pre-cycle Stage	44
4.1.1	Open Observation	44
4.1.2	Unstructured Interview	46
4.1.3	Reflective Journal	48
4.1.4	The Conclusion of Preparation Stage.....	50
4.2	Cycle Stage	50
4.2.1	Cycle 1	51
4.2.2	Analysis and Discussion of Cycle 1.....	65
4.2.3	Cycle 2	72
4.2.4	Analysis and Discussion of Cycle 2.....	83
4.2.5	Final Discussion.....	89
CHAPTER V CONCLUSION AND RECOMMENDATION.....	96	
5.1	Conclusion.....	96

5.2 Recommendation	98
REFERENCES.....	xviii
APPENDICES	A-1



LIST OF FIGURES

	page
Figure 3. 1 Kemmis & McTaggart Spiral Model.....	27



LIST OF TABLES

	page
Table 2. 1 The Advantages and Disadvantages of Discussion Method	17
Table 2. 2 The Advantages and Disadvantages of Numbered Heads Together (NHT).....	20
Table 3. 1 Conversion Score Table.....	34
Table 3. 2 Advantages and Disadvantages of Observation.....	36
Table 3. 3 The Advantages and Disadvantages of Questionnaire.....	37
Table 3. 4 The Advantages and Disadvantages of Journal Reflection.....	38
Table 3. 5 Measured Variables Table	38
Table 3. 6 Coding.....	43
Table 4. 1 The Summary of the Researcher's Journal Reflective.....	49
Table 4. 2 The Summary of Mentor Observation on Behavioral Engagement Result	54
Table 4. 3 The Summary of Students' Questionnaire on Behavioral Engagement Result.....	58
Table 4. 4 The Summary of the Mentor's Observation on Behavioral Engagement Result Cycle 2.....	76
Table 4. 5 The Summary of the Students' Questionnaire on Behavioral Engagement Result	78
Table 4. 6 The Students' Chapter 5 Test Result	88
Table 4. 7 The Original and Revised Statements of Instruments.....	94

LIST OF CHARTS

Diagram 4. 1 Mentor Teacher Observation Result on Behavioral Engagement	
Cycle1	56
Diagram 4. 2 Students' Questionnaire Result on Behavioral Engagement (BE)	
Cycle 1	59
Diagram 4. 3 Mentor Observation on Numbered Heads Together Result Cycle 1	62
Diagram 4. 4 Students' Questionnaire on Numbered Heads Together (NHT)	
Cycle 1	62
Diagram 4. 5 Mentor's Observation on Behavioral Engagement Result Cycle 2	77
Diagram 4. 6 The Students' Questionnaire on Behavioral Engagement Result	
Cycle 2	79
Diagram 4. 7 The Mentor's Observation on NHT Result Cycle 2	80
Diagram 4. 8 The Students' Questionnaire on NHT Result Cycle 2	81
Diagram 4. 9 The Comparison of Students' Behavioral Engagement in Cycle 1 and Cycle 2 Based on Mentor Observation	89
Diagram 4. 10 The Comparison of the Students' Behavioral Engagement in Cycle 1 and Cycle 2 Based on the Students' Questionnaire	90
Diagram 4. 11 The Comparison of NHT Implementation in Cycle 1 and Cycle 2 Based on the Mentor Observation.....	91
Diagram 4. 12 The Comparison of NHT Implementation in Cycle 1 and Cycle 2 Based on the Students' Questionnaire	92

LIST OF APPENDICES

	page
Appendix A- 1 Lesson Plan Pre-Cycle Stage	A-1
Appendix A- 2 Lesson Plan Cycle 1	A-3
Appendix A- 3 Lesson Plan Cycle 2	A-5
Appendix B- 1 Mentor Feedback Cycle 1	B-1
Appendix B- 2 Mentor Feedback Cycle 2	B-2
Appendix C- 1 Blank Students' Worksheet.....	C-1
Appendix C- 2 Students' Worksheet Cycle 1 Samples.....	C-2
Appendix C- 3 Students' Worksheets Cycle 2 Samples	C-5
Appendix D- 1 Blank Mentor's Observation Checklist.....	D-1
Appendix D- 2 Mentor's Observation Cycle 1	D-3
Appendix D- 3 Mentor's Observation Checklist Cycle 2	D-6
Appendix E- 1 Blank Students' Exercise.....	E-1
Appendix E- 2 Students' Exercise Results Cycle 1 Samples	E-2
Appendix E- 3 Students' Exercises Cycle 2	E-6
Appendix F- 1 Reflective Journal Cycle 1	F-1
Appendix F- 2 Reflective Journal Cycle 2.....	F-3
Appendix G- 1 Blank Students' Questionnaire.....	G-1
Appendix G- 2 Students' Questionnaire Cycle 1 Samples	G-2
Appendix G- 3 Students' Questionnaire Cycle 2 Samples	G-6

Appendix H- Instruments Validation Appendix H- 1 Instruments Validation from First Validator (First Validation).....	H-1
Appendix H- 2 Instrument Validation from the First Validator (Final Revisions)...	
.....	H-9
Appendix H- 3 Instruments Validation from the Second Validator (First Revision)	
.....	H-16
Appendix H- 4 Instruments Validation from the Second Validator (Final Revisions).....	H-27
Appendix H- 5 Instrument Validation for Pre-Cycle (First Revision).....	H-37
Appendix H- 6 Instrument Validation for Pre-cycle (Final Revision).....	H-39
Appendix I- 1 Mentor's Open Observation	I-1
Appendix I- 2 Colleague's Open Observation	I-2
Appendix I- 3 Mentor Interview Results	I-3
Appendix I- 4 Reflective Journal of Pre-Cycle.....	I-5
Appendix J- 1 Documentations.....	J-1