

TABLE OF CONTENTS

	Page
COVER	
FINAL PROJECT AUTHENTICITY STATEMENT	
FINAL PROJECT SUPERVISOR'S APPROVAL	
FINAL PROJECT EXAMINER PANEL'S APPROVAL	
ABSTRACT	iv
ABSTRAK	v
FOREWORD	vi
TABLE OF CONTENTS	viii
LIST OF FIGURES	xii
LIST OF TABLES	xiii
LIST OF APPENDICES	xiv
CHAPTER I INTRODUCTION	1
1.1 Background.....	1
1.2 Research Question	4
1.3 Research Purposes	4
1.4 Research Benefits	4
1.5 Explanation of Terms	5
CHAPTER II LITERATURE REVIEW	6
2.1 Conceptual Understanding	6
2.1.1 Definition of Conceptual Understanding	6
2.1.2 Indicators of Conceptual Understanding	7
2.1.3 Importance of Conceptual Understanding	8

2.1.4	Factors that Influence Conceptual Understanding.....	9
2.2	Student Team Achievement Division (STAD).....	10
2.2.1	Definition of STAD	10
2.2.2	Steps to Implement STAD	11
2.2.3	Individual Score Improvement in STAD.....	14
2.2.4	Strengths and Weaknesses of STAD	15
2.3	Relationship Between Conceptual Understanding and STAD.....	16
CHAPTER III RESEARCH METHOD.....		19
3.1	Classroom Action Research Model.....	19
3.2	Subject, Location, and Time of Research.....	21
3.2.1	Research Subject.....	21
3.2.2	Research Location.....	21
3.2.3	Research Time	21
3.3	Research Procedure	22
3.3.1.	Issue Identification.....	22
3.3.2.	Data Collection	22
3.3.3.	Action Planning	22
3.3.4.	Plan Activation	23
3.3.5.	Outcome Assessment.....	23
3.4	Sources of Data.....	23
3.1.1.	Mentor Feedback	23
3.1.2.	Reflection Journal	24
3.1.3.	Formative Test Sheet	24
3.1.4.	Lesson Plan	24

3.5	Research Data Analysis	24
CHAPTER IV ANALYSIS AND DISCUSSION		26
4.1	Issue Identification	26
4.2	Data Presentation	28
4.2.1	Action Planning and Plan Activation 1	28
4.2.1.1	Data Presentation of Independent Variable	30
4.2.1.1.1	Lesson Plan	30
4.2.1.1.2	Mentor Feedback	30
4.2.1.1.3	Reflection Journal	31
4.2.1.2	Data Presentation of Dependent Variables	31
4.2.1.2.1	Formative Test Sheet	31
4.2.1.2.2	Mentor Feedback	32
4.2.1.2.3	Reflection Journal	33
4.2.2	Action Planning and Plan Activation 2	33
4.2.2.1	Data Presentation of Independent Variable	34
4.2.2.1.1	Lesson Plan	34
4.2.2.1.2	Mentor Feedback	35
4.2.2.1.3	Reflection Journal	35
4.2.2.2	Data Presentation of Dependent Variable	35
4.2.2.2.1	Formative Test	35
4.2.2.2.2	Mentor Feedback	37
4.2.2.2.3	Reflection Journal	37
4.3	Outcome Assessment	38
CHAPTER V CONCLUSION AND RECOMMENDATION		44

5.1 Conclusion.....	44
5.2 Recommendation.....	45
REFERENCES.....	47
APPENDICES	50



LIST OF FIGURES

	Page
Figure 3. 1 Classroom Action Research Model by Pelton.....	20



LIST OF TABLES

	Page
Table 2.1 Individual Score Improvement According to Slavin and Hamdayama	14
Table 2.2 Individual Score Improvement According to Rusman	14
Table 2.3 Individual Score Improvement Used in This Research	14
Table 3.1 Research Timeline	21
Table 3.2 Data Sources	23
Table 4. 1 Issue Identification Timeline	27
Table 4. 2 Issue Identification Formative Test Result	28
Table 4. 3 Group Arrangement	29
Table 4. 4 Formative Test Indicator Calculation in 1 st Plan Activation	32
Table 4. 5 Formative Test Indicator Calculation on 2 nd Plan Activation.....	36
Table 4. 6 Comparison of Implementation of STAD from All Instruments.....	38
Table 4. 7 Conceptual Understanding Indicators Analysis Comparison: Mentor Feedback & Reflection Journal Instruments	41

LIST OF APPENDICES

	Page
Appendix 1 : Issue Identification Data Recapitulation	50
Appendix 2 : Lesson Plan of 1 st Plan Activation	51
Appendix 3: Students' Worksheet of 1 st Plan Activation.....	54
Appendix 4 : Formative Test Problems Validation Form of 1 st Plan Activation..	55
Appendix 5 : Certificates of 1 st Plan Activation	56
Appendix 6 : Mentor Feedback of 1 st Plan Activation	57
Appendix 7 : Reflection Journal of 1 st Plan Activation	60
Appendix 8 : Students' Formative Test Sheets Sample of 1 st Plan Activation	62
Appendix 9 : Lesson Plan of 2 nd Plan Activation	65
Appendix 10 : Student's Worksheet of 2 nd Plan Activation.....	70
Appendix 11 : Formative Test Problem Validation Form of 2 nd Plan Activation	71
Appendix 12 : Certificates of 2 nd Plan Activation	72
Appendix 13 : Mentor Feedback of 2 nd Plan Activation.....	74
Appendix 14 : Reflection Journal of 2 nd Plan Activation	77
Appendix 15 : Students' Formative Test Sheets Sample of 2 nd Plan Activation ..	79
Appendix 16 : Research Permission Form.....	81