CONTENT LIST

	Page
LEGITIMATION SHEET	***i***
BIOGRAPHY	***ii***
ABSTRACT	***iii***
PREFACE	***iv***
CONTEN LIST	***vi***
TABLE LIST	***ix***
FIGURE LIST	***x***
APPENDIX LIST	***xi***
CHAPTER 1 : INTRODUCTION	**1**
1.1. Background	1
1.2. Problem Identification	4
1.3. Problem Limitation	4
1.4. Problem Formulation	5
1.5. Objective of Research	5
1.6. Benefits of Research	6
CHAPTERII : LITERATURE REVIEW	**7**
2.1. Theoretical Framework	7
2.1.1. Understanding Learning	7
2.1.1.1. Learning Theory that support learning	8
2.1.2. Learning Activities	8
2.1.3. Learning Outcome	11
2.1.3.4. Problem Solving Skill	14
2.1.4. Understanding Learning Model	18
2.1.4.1. Problem Based Learning Model	18
2.1.4.2. Characteristic of Problem Based Learning Model	18
2.1.4.3. Benefits of Problem Based Learning Model	19
2.1.4.4 Syntax of Problem Based Learning Model	20

2.1.4.5 Advantage and Disadvantage of Problem Based Learning Model 22
2.1.5 Conventional Learning Model 23
2.1.6 Learning Media 24
2.1.6.1 Concept Map 25
2.1.7 Learning Theory 28
2.3. Conceptual Framework 37
2.3. Hypothesis 39

CHAPTER III RESEARCH METHOD 40
3.1. Location and time research 40
3.2. Population and Sample Research 40
3.3. Research Variable 40
3.4. Type and Research Design 40
3.4.1 TypeOf Research 40
3.4.2 Research Design 41
3.5. Research Procedure 42
3.6. Research Instrument 44
3.6.1 Student Quissionare 44
3.6.2 Teacher's Interview 44
3.6.2 Observation of student activities sheet 44
3.6.3 Test of Result of Learning 44
3.6.4 Instrument Validity by Validator 45
3.7. Data of Analyze Technique 45
3.7.1 Instrument of Initial DataCollector 46
3.7.2 Instrument of final Data Collector 46
3.7.2.1 Observation of Student Activities 46
3.7.2.2 Test of Result of Learning 46
3.7.2.2.1 Calcualting Raw Score 47
3.7.2.2.2 Determine the Average Value and Standard Deviation 47
3.7.2.2.3 Normality Test 47
3.7.2.2.4 Homogenity Test 48

3.8 Hypothesis Test 50

CHAPTER IVRESULTS AND DISCUSSION

4.1 Results of research 53

4.1.1 Researh Data 53

4.1.2 Student Learning Outcomes On Experiment Class 56

4.1.3 Student Learning Outcomes On Control Class 57

4.1.4 Data Analysis 57

4.1.4.1 Normality Test 57

4.1.4.2Homogeneity Test 58

4.1.4.2Hypothesis Test 58

4.2 Discussion 59

CHAPTER IVCONCLUSIONS AND SUGGESTION

5.1 Conclusion 62

4.1.1Suggestion 62

REFERENCES **64**