TABLE OF CONTENT

		Pages	
Appro	val Sheet	i	
Biogr	aphy	ii	
Abstr	Abstract		
Aken	Akcnowledgement		
Conte	Content List		
Table	List	ix	
Figure	e List	x	
Apper	ndix List	xi	
CHA	PTER I INTRODUCTION	1	
1.1	Background	1	
1.2	The Problem Identification	5	
1.3	The Scope of Problem	6	
1.4	Research Question	6	
1.5	Research Objectives	6	
1.6	Significance of Research	7	
1.7	Operational Definition	7	
CHA	PTER II THEORITICAL REVIEW	8	
2.1	Theortical Framework	8	
2.1.1	Learning	8	
2.1.2	Understanding Learning Outcome	8	
2.1.3	Learning Model	11	
2.1.4	Problem Based Learning Model	12	
2.1.4.	1 The Definition of Problem Based Learning Model	12	
2.1.4.	2 Special Features of Problem Based Learning Model	15	
2.1.4.	3 Advantages and Disadvantages of Problem Based Learning Modal	16	
2.1.5	The Comparison Between PBL and Convetional Learning	17	
2.1.6	The Defenition of Process Skill on Sciences	18	
2.1.6.	1 Science Process Skill	19	
2.1.6.	2 Purpose of Scince Process Skill	27	
2.2	Conceptual Fremwork	28	

2.3	Hypothesis of This Research	30
CHAP	TER III RESEARCH METHODOLOGY	31
3.1	Location and Time Research	31
3.1.1	Reasearch Location	31
3.1.2	Reasearch Time	31
3.2.	Population and Sample	31
3.2.1	Population	31
3.2.2	Sample	31
3.3.	Research Variable	31
3.4.	Type and Design of Research	32
3.4.1	Type of Research	32
3.4.2	Design of Research	32
3.5.	Instrument of Research	33
3.5.1	Instrument Test for Student Learning Outcome	33
3.5.2	Validity	34
3.5.3	Realibily	34
3.5.4	Index Difficulties	35
3.5.5	Descrimination Power	35
3.5.6	Instrument Test for Science skill Process	36
3.6	Research Procedure	39
3.7	Data Processing	40
3.7.1	Learning Outcome Data	40
3.7.2	Science Skill Process Data Analyzing	40
3.7.3	Test Similarity Two Average	41
3.7.3.1	Test Normality	41
3.7.3.2	Test Homoginity	42
3.7.3.3	Hipothesis Test	43
CHAPT	TER IV RESULT AND DISCUSSION	45
4.1	Research Result	45
4.1.1	Result of Instrument Tes	45
4.1.2	Research Data of Learning Outcame	45
4.1.2.1	Data of Pre-tes in Class Problem Based Learning and Conventional	45
4.1.2.2	Data of Pos-tes in Class Problem Based Learning and Conventional	47

4.2	Science Skill Prosess	49
4.2.1	The Average of Science Skill Process	49
4.2.2	The Data of Scinence Skill Process in Class Problem Based Learnig	50
	And Class Conventional	
4.2.3	Normality Test For Science Skill Prosess	53
4.2.4	Homogenety Tes For Science Skill Prosess	53
4.2.5	Hypothesis Tes (t-tes)	54
4.3	Discussion	56
4.3.1	Learning Outcome	56
4.3.2	Science Prosess Skill	57
CHAPTER V CONCLUSION AND RECOMMENDATION		
5.1 Conclusion		59
5.2 Recommendation		59
REFERENCES		

