

## LIST OF CONTENTS

	Page
Approval Sheet	<i>i</i>
Biography	<i>ii</i>
Abstract	<i>iii</i>
Acknowledgement	<i>iv</i>
List of Contents	<i>vi</i>
List of Tables	<i>ix</i>
List of Appendix	<i>x</i>

## CHAPTER I INTRODUCTION

1.1. Background	1
1.2. Problem Identification	6
1.3. Problem Limitation	6
1.4. Problem Statement	7
1.5. Research Objectives	7
1.6. Research Benefits	8
1.7. Operational Framework	9

## CHAPTER II LITERATURE STUDY

2.1. Definition of Learning	10
2.2. Constructivism Theory of Learning	11
2.3. Learning Style In Learning Process	11
2.4. Inquiry Based Learning In Teaching Chemistry	12
2.5. The Implementation and Process of Inquiry Learning	14
2.6. Guided Inquiry Learning	15
2.7. The Use of Concept Mapping In Learning Process	16

2.8.	The Usefullness of Concept Mapping	17
2.9.	Student's Achievement	18
2.10.	Definition of Metacognition	19
2.11.	Solubility and Solubility Product	20
2.12.	Applicability in The Learning Model to The Topic	26
2.13.	Conceptual Framework	27
2.14.	Hypothesis	29

### **CHAPTER III RESEARCH METHODOLOGI**

3.1.	Research Location and Objects	30
3.2.	Population and Sample	30
3.3.	Research Varibales	30
3.3.1	Independent Variable	30
3.3.2	Dependent Variable	30
3.3.3	Control variable	31
3.4.	Research Design	31
3.4.1	Research Procedure	32
3.4.2	Research Procesdure Flowchart	33
3.5.	Research Instrument	34
3.5.1	Test Instrumentation	34
3.5.2	Questionnaire Sheet	34
3.5.3	Validity Test	35
3.5.4	Reliability Test	36
3.5.5	Difficulty Level Test	37
3.5.6	Difference Index Test	38
3.6.	Data Analysis Technique	38

3.6.1	Normality Test	39
3.6.2	Homogeneity Test	39
3.6.3	Normalized Test	39
3.6.4	Hypothesis Testing	40
3.6.5	Correlation Analysis	42

#### **CHAPTER IV RESULT AND DISCUSSIONS**

4.1	Research Result Description	43
4.2	Result Instrument Preparation Result	43
4.2.1	Validity Test Result	44
4.2.2	Difficulty Test Result	44
4.2.3	Difference Index Test Result	44
4.2.4	Reliability Test Result	44
4.3	Data of Research Result	45
4.4	Data Analysis of Research Result	46
4.4.1	Normality Test Result	46
4.4.2	Homogeneity Test Result	47
4.4.3	Hypothesis Test Result	48
4.4.4	Correlation Analysis Test	49
4.5	Discussion	51

#### **CHAPTER V CONCLUSIONS AND DISCUSSION**

5.1	Conclusion	54
5.2	Suggestion	54

#### **REFERENCES**

56