

## LIST OF CONTENTS

	Page
Abstract	i
Acknowledgement	ii
List of Contents	iv
List of Figure	vii
List of Table	viii
List of Appendix	ix
<b>CHAPTER I INTRODUCTION</b>	
1.1 Background	1
1.2 Problem Identification	4
1.3 Research Scope	4
1.4 Problem Statements	4
1.5 Problem Limitation	5
1.6 Research Objectives	5
1.7 Research Benefits	5
1.8 Operational Definition	6
<b>CHAPTER II LITERATURE STUDY</b>	
2.1. Critical Thinking	8
2.1.1 Definition of Critical Thinking	8
2.1.2 Development of Critical Thinking in the Classroom	9
2.1.3 Critical in Life	12
2.2 Concept Development	13
2.3 Module	14
2.3.1 Module Characteristic	14
2.4 Student's Achievement	16
2.5 Solubility and Solubility Product	17
2.6 Conceptual Framework	26
2.7. Hypothesis	26

### **CHAPTER III RESEARCH METHODS**

3.1 Location and Time Research	28
3.2 Population and Sample	28
3.3 Research Variables and Instrument Research	29
3.3.1 The study variables	29
3.3.2 Research Instrument	29
3.4 Type and Design Research	30
3.4.1 Type of Research	30
3.4.2 Research Procedure	30
3.4.3 Research Flow Diagram	32
3.5 Technic Data Collection	33
3.5.1 Test Validity	33
3.5.2 The difficulty level	34
3.5.3 Discriminating Power Index	35
3.5.4 Reliability Test	36
3.6 Data Analysis Techniques	37
3.6.1 Normality Test	37
3.6.2 Homogeneity Test	37
3.6.3 Normalized Gain	38
3.6.4 Hypothesis Test	38

### **CHAPTER VI RESULT AND DISCUSSION**

4.1. Research Description	39
4.2 Analysis of Research Instrument	39
4.2.1 Validity Test	39
4.2.2 Reliability Test	40
4.2.3 Difficulty Index	40
4.2.4 Discriminating Power Index	41
4.3 Analysis of Research Result	41
4.3.1 Normality Test	42

4.3.2 Homogeneity test	43
4.4 Students' Achievement	44
4.4.1. Student's Achievement before Teaching Treatment	44
4.4.2. Student's Achievement after Teaching Treatment	45
4.5 Hypothesis testing	49
4.6 Correlation Between the Increasing of Student's Achievement (Gain) With the Average Value of Critical Thinking Development	50
4.7 Discussion	51
<b>CHAPTER V CONCLUSION AND SUGGESTION</b>	
5.1 Conclusion	56
5.2 Suggestion	56
<b>REFERENCES</b>	57