TABLE OF CONTENTS

Legalization Paper	i
Biography	ii
Abstract	iii
Acknowledgement	iv
Table of Contents	vi
List of Figures	x
List of Tables	xi
List of Appendix	xii
CHAPTER I. INTRODUCTION	1
1.1. Background of Research	1
1.2. Identification of Problem	4
1.3. Scope of Research	4
1.4. Problem Statements	4
1.5. Objective of Research	5
1.6. Significance of Research	5
1.7. Operational Definition	5
CHAPTER II. LITERATURE REVIEW	7
2.1. Theoretical Framework	7
2.1.1. The Nature of Learning Chemistry	7
2.1.2. Learning Strategies	7
2.1.3. Inquiry Learning Method	8
2.2. Guided Inquiry Learning	9
2.3. Conventional Learning Method	11
2.4. Learning Media	12
2.4.1. Macromedia Flash	14
2.5. Learning Assessment	16
2.6. Description of Material about Solubility and Solubility Product	16

2.6.1. Definition and Unit of Solubility 17
2.6.2. Constanta of Solubility Product 17
2.6.3. The relationship between Solubility and Constanta of Solubility Product (K_{sp}) 19
2.6.4. The Effect of Common Ions toward Solubility 21
2.6.5. Solubility and pH 23
2.6.5.1.pH and Solubility of base 23
2.6.5.2.pH and Solubility of Salts 25
2.6.6. Precipitation Reaction 25
2.7. Previous Research about Guided Inquiry learning method and and Macromedia 27
2.8. Conceptual Framework 31
2.9. Research Hypothesis 32

CHAPTER III. RESEARCH METHODOLOGY 33
3.1. Location and time of Research 33
3.2. Population and sample of Research 33
3.2.1. Population of Research 33
3.2.2. Sample of Research 33
3.3. Research Variables 33
3.3.1. Dependent Variables 33
3.3.2. Independent Variables 34
3.3.3. Control Variables 34
3.4. The Instrument for Collecting Data 34
3.5. The Procedure of Research 35
3.5.1. Implementation of Research Design 35
3.6. The Tools for Collecting the Data 39
3.6.1. The Validity of the Item Test 39
3.6.2. Difficult Level of the Item Test 39
3.6.3. Different Index of the Item Test 40
3.6.4 . Reliability of Test 41

3.7. Technique for Collecting Data 42
3.8. Technique of Data Analysis 42
3.8.1. The Normality Test 42
3.8.2. The Homogeneity of Test 42
3.8.3. Normalized Gain 43
3.8.4. Hypothesis Testing 43
3.8.5. Hypothesis Criteria 44

CHAPTER IV RESULT AND DISCUSSION 45
4.1. Research Result 45
4.2. Data Analysis of Research Instrument 45
4.2.1. Validity of Item Test 46
4.2.2. Difficult Level 46
4.2.3. Different Index 46
4.2.4. Reliability Test 46
4.3. Achievement of Research Result 47
4.3.1. Data Analysis of Achievement Test 47
4.3.2. The Analysis Data of Student's Achievement before Teaching Treatment 47
4.3.3. The Analysis Data of Student's Achievement after Teaching Treatment 48
4.3.4. Normalized Gain Research Data 49
4.4. Homogeneity Data 50
4.4.1. Homogeneity Data of Pre Test 51
4.4.2. Homogeneity Data of Post Test 51
4.4.3. Homogeneity Data of Normalized Gain 51
4.5. Normality Data 51
4.5.1. Normality Data of Pre –Test 52
4.5.2. Normality Data of Post Test 52
4.5.3. Normality Data of Normalized Gain 52
4.6. Hypothesis 53

4.6.1. Hypothesis Testing 53
4.6.2. Hypothesis Criteria 54
4.7. Cognitive Aspect Improvement 55
4.8. Discussion 58

CHAPTER V CONCLUSION AND SUGESTION 62
5.1. Conclusion 62
5.2. Suggestion 62

REFERENCES 63