

## LIST OF CONTENT

	<b>Page</b>
<b>LEGALIZATION SHEET</b>	i
<b>BIOGRAPHY</b>	ii
<b>ABSTRACT</b>	iii
<b>ACKNOWLEDGMENT</b>	iv
<b>LIST OF CONTENT</b>	vi
<b>LIST OF FIGURE</b>	ix
<b>LIST OF TABLE</b>	x
<b>LIST OF APPENDIX</b>	xi
<b>CHAPTER 1 INTRODUCTION</b>	1
1.1. Research Background	1
1.2. Problem Identification	5
1.3. Problem Limitation	6
1.4. Problem Formulation	6
1.5. Research Objectives	6
1.6. Research Benefit	7
1.7. Operational Definition	7
<b>CHAPTER II LITERATURE REVIEW</b>	9
2.1. The Nature of Models and Learning Methods	9
2.2. Creative Problem Solving (CPS)	10
2.2.1. Definition of Creative Problem Solving Learning Model	10
2.2.2. The Steps of Creative Problem Solving Learning Model	10
2.2.3. Advantages and Disadvantages of Creative Problem Solving Model	13
2.3. Higher Order Thinking Skills (HOTS)	14
2.3.1. Definition of Higher Order Thinking Skills	14

2.3.2. Aspects of Higher Order Thinking Skills	15
2.4. Learning Motivation	18
2.4.1. Definition of Learning Motivation	18
2.4.2. Types of Learning Motivation	19
2.4.3. Factors Affecting Learning Motivation	20
2.5. Learning Outcomes	20
2.5.1. Definition Of Learning Outcomes	20
2.5.2. Benefits of Learning Outcomes	21
2.6. Salt Hydrolysis	22
2.6.1. Salt Hydrolysis Concept	22
2.6.2. Calculate pH Salt Solution	23
2.7. Conceptual Framework	27
2.8. Research Hypothesis	28
<b>CHAPTER III RESEARCH METHODS</b>	29
3.1. Research Location	29
3.2. Research Population and Sample	29
3.3. Research Design and Variable	29
3.4. Research Instrument	30
3.5. Research Procedure	34
3.6. Data Collection	37
3.7. Data Analysis	37
<b>CHAPTER IV RESULT AND DISCUSSION</b>	41
4.1. Research Result	41
4.2. Data Analysis of Research Instrument	41
4.2.1. Analysis of Instrument Test	41
4.2.1.1. Validity of Contents	41
4.2.1.2. Difficulty Index of Item Test	42
4.2.1.3. Differential Power of Item Test	43

4.2.1.4. Distractor	44
4.2.1.5. Reliability Test	44
4.2.2. Analysis of Instrument Non Test	45
4.3. Data Analysis of Student's Learning Outcomes	45
4.3.1. Data Analysis of Student's Pretest Result	46
4.3.1.1. Normality Data of Pretest	46
4.3.1.2. Homogeneity Data of Pretest	47
4.3.2. Data Analysis of Student's Posttest	47
4.3.2.1. Normality Data of Posttest	49
4.3.2.2. Homogeneity Data of Posttest	50
4.3.2.3. Hypothesis Testing	50
4.4. Data Analysis of Student's Learning Motivation	52
4.4.1. Normality Data of Questionnaire Motivation	54
4.4.2. Homogeneity Data of Questionnaire Motivation	54
4.4.3. Hypothesis Testing of Questionnaire Motivation	55
4.4.4. Correlation Test	56
4.4.4.1. Correlation Test of Control Class	56
4.4.4.2. Correlation Test of Experiment Class	57
<b>CHAPTER V CONCLUSION AND SUGGESTION</b>	<b>58</b>
5.1. Conclusion	58
5.2. Suggestion	58

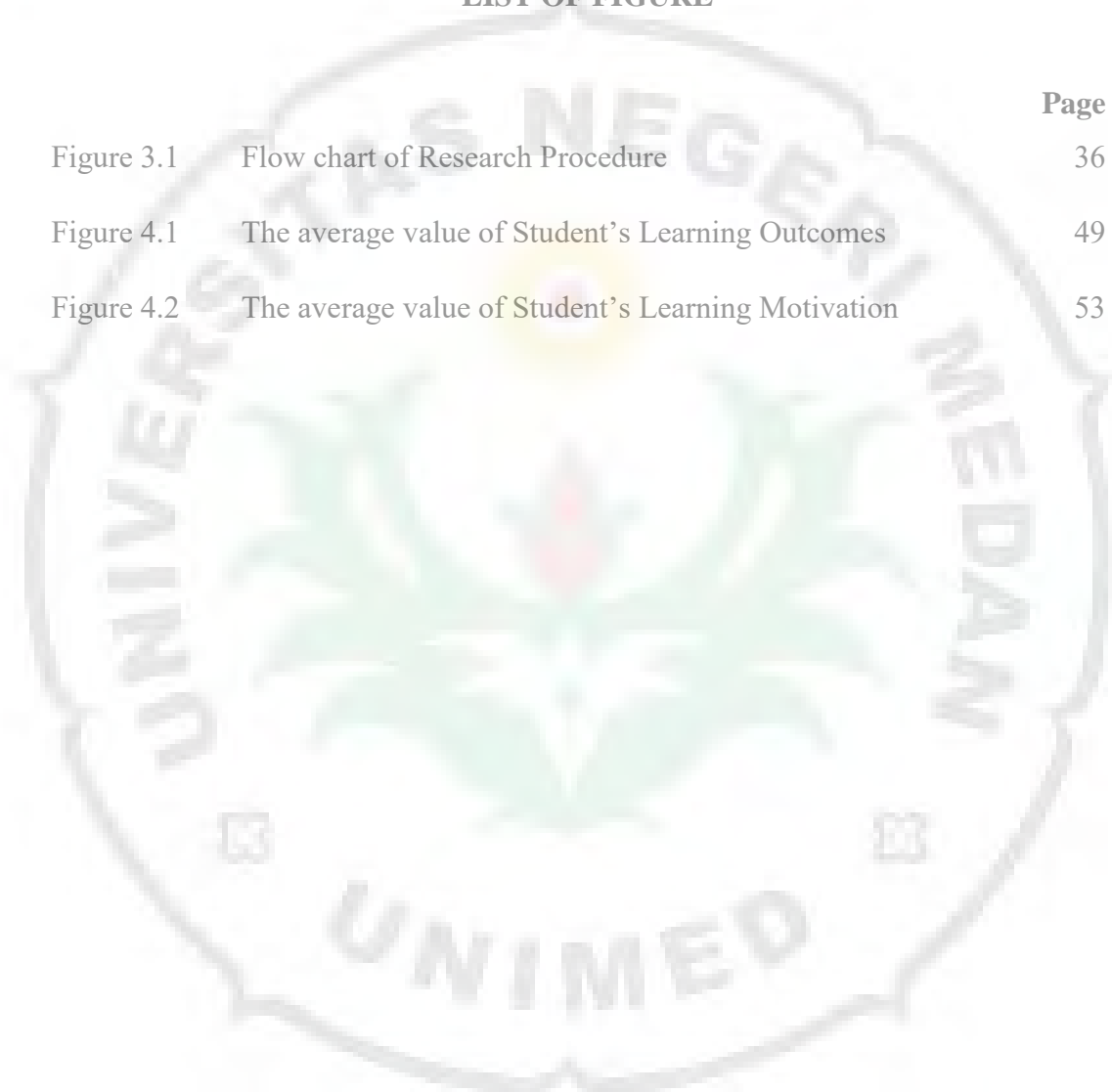
## REFERENCES

59



## LIST OF FIGURE

	<b>Page</b>	
Figure 3.1	Flow chart of Research Procedure	36
Figure 4.1	The average value of Student's Learning Outcomes	49
Figure 4.2	The average value of Student's Learning Motivation	53



THE  
*Character Building*  
UNIVERSITY

## LIST OF TABLE

		<b>Page</b>
Table 2.1.	Syntax of Creative Problem Solving Learning Model	11
Table 2.2.	Integrating HOTS in CPS Learning Model	17
Table 3.1.	Pretest-Posttest Control Group Design	29
Table 3.2.	Criteria of Motivation Assesament	31
Table 3.3.	Correlation Analysis	39
Table 4.1.	Content Validation Test	42
Table 4.2.	Difficulty Index of Item Test	43
Table 4.3.	Differential Power of Item Test	44
Table 4.4.	Student's Pretest Data Analysis	46
Table 4.5.	Normality Data of Pretest	46
Table 4.6.	Homogeneity Data of Pretest	47
Table 4.7.	Student's Posttest Data Analysis	48
Table 4.8.	Normality Data of Posttest	50
Table 4.9.	Homogeneity Data of Posttest	50
Table 4.10.	Result of Hypothesis Testing	51
Table 4.11.	Student's Questionnaire Motivation Data Analysis	52
Table 4.12.	Normality Data of Questionnaire Motivation	54
Table 4.13.	Homogeneity Data of Questionnaire Motivation	55
Table 4.14.	Hypothesis Testing of Questionnaire Motivation	55
Table 4.15.	Data Correlation of Motivation and Learning Outcomes in Control Class	56
Table 4.16.	Data Correlation of Motivation and Learning Outcomes in Experiment Class	57

## LIST OF APPENDIX

		<b>Page</b>
Appendix 1	Syllabus	63
Appendix 2	Lesson Plan (RPP)	65
Appendix 3	Student Worksheet of Higher Order Thinking Skills	87
Appendix 4	Latticework of Learning Motivation Questionnaire	105
Appendix 5	Learning Motivation Questionnaire	106
Appendix 6	Latticework of Instrument Test (Before Validation)	110
Appendix 7	Instrument Test (Before Validation)	129
Appendix 8	Answer Key of Instrument Test (Before Validation)	139
Appendix 9	Latticework of Instrument Test (After Validation)	140
Appendix 10	Instrument Test (After Validation)	151
Appendix 11	Answer Key of Instrument Test (After Validation)	157
Appendix 12	Table of Difficulty Index of Item Test	158
Appendix 13	Calculation of Difficulty Index of Item Test	159
Appendix 14	Table of Differential Power of Item Test	161
Appendix 15	Calculation of Differential Power of Item Test	162
Appendix 16	Table of Distractor	164
Appendix 17	Calculation of Distractor	165
Appendix 18	Table of Reliability Test	166
Appendix 19	Calculation of Reliability Test	167
Appendix 20	Recapitulation of Instrument Analysis	168
Appendix 21	Tabulation of Learning Outcomes	169
Appendix 22	Calculation Average, Dev. Standar and Varians	172
Appendix 23	Data Normality Test	174
Appendix 24	Calculation of Homogenity Test	178
Appendix 25	Calculation of Hypothesis Testing	180
Appendix 26	Tabulation of Learning Motivation Questionnaire	182

Appendix 27	Data of Learning Motivation Questionnaire	184
Appendix 28	Normality Test of Learning Motivation Questionnaire	188
Appendix 29	Calculation of Homogeneity Test	190
Appendix 30	Hypothesis Testing of Learning Motivation Questionnaire	191
Appendix 31	Calculation of Correlation Test	193
Appendix 32	Table of r-Product Moment	199
Appendix 33	Table of Chi-Squared	200
Appendix 34	Table F Value Distribution	201
Appendix 35	Table t Value Distribution	202
Appendix 36	Research Documentation	203



THE  
*Character Building*  
UNIVERSITY