

**LIST OF APPENDIX**

	Page
Appendix 1 Syllabus of chemistry subject	70
Appendix 2 Lesson plan of experiment class	75
Appendix 3 Lesson plan of control class	96
Appendix 4 The observation sheet of student's cooperation character	115
Appendix 5 The observation sheet of student's curiosity character	117
Appendix 6 The questionnaire of student's cooperation character	118
Appendix 7 The questionnaire of student's curiosity character	119
Appendix 8 The instrument test before validation	120
Appendix 9 Lattice of Instrument test on buffer solution topic	127
Appendix 10 Table of validity item test	136
Appendix 11 Reliability of instrument test	152
Appendix 12 Difficulty index	154
Appendix 13 Discriminating power	158
Appendix 14 The instrument test after validation	162
Appendix 15 Worksheet of experiment	169
Appendix 16 The result of experiment	174
Appendix 17 The observation data of student's cooperation character	177
Appendix 18 The observation data of student's curiosity character	180
Appendix 19 The development of student's cooperation character	183
Appendix 20 The development of student's curiosity character	184
Appendix 21 The questionnaire data of student's cooperation	185

Appendix 22 The questionnaire data of student's curiosity	186
Appendix 23 Gain of pretest-posttest in experimental class	187
Appendix 24 Gain of pretest-posttest in control class	189
Appendix 25 Normality test	191
Appendix 26 Homogeneity test	199
Appendix 27 Hypothesis testing	201
Appendix 28 The calculation of increasing student's achievement	203
Appendix 29 Documentation	204

