

LIST OF APPENDICES

Appendix	Page
Appendix 1 Learning Syllabus.....	86
Appendix 2 Project based learning model Lesson plan	93
Appendix 3 Group Investigation learning model Lesson plan.....	119
Appendix 4 Conventional learning model Lesson plan	144
Appendix 5 Learning Material For Ecosystem Topics	160
Appendix 6 Embedded Figure Test.....	166
Appendix 7 The Clues of Science Process Skill Test Instrument.....	168
Appendix 8 Science Process Skills Test Instrument	169
Appendix 9 The Rubric of Science Process Skill Test Instrument	175
Appendix 10 The Clues of Self Directed Learning Questionnaire	179
Appendix 11 Self Directed Learning Questionnaire.....	180
Appendix 12 Self Directed Learning Questionnaire Rubric Assessment	182
Appendix 13 Biology Learning Observation Sheets.....	183
Appendix 14 Validity of Science Process Skills Test Instrument	185
Appendix 15 Reliability of Science Process Skills Test Instrument.....	198
Appendix 16 Discrimination Indices of Science Process Skills Test Instrument.....	199
Appendix 17 Difficulty Indices of Science Process Skills Test Instrument	200
Appendix 18 Research Data.....	201
Appendix 19 The Description Data of Science Process Skill Test Instrument and Self Directed Learning Questionnaire.....	207
Appendix 20 The Normality Test Results of Science Process Skills and Self Directed Learning Questionnaire Using Kolmogrov-Smirnov Test	208
Appendix 21 Two Way Anova Result For The Effect of Learning Models Toward Students' Science Process Skills Tests of Between-Subjects Effects.....	209
Appendix 22 Post Hoc Tests Results The Effect of Learning Models Toward Science Process Skills	210
Appendix 23 Research Documentations	211