

APPENDIX LIST

Appendix 1. Interview Guidelines	92
Appendix 2. Blueprint of Scientific Literacy-Based Questions	95
Appendix 3. Product of Scientific Literacy-Based Test Instrument	100
Appendix 4. Scoring Scheme	111
Appendix 5. Result of Expert Validation	122
Appendix 6. Calculation of Expert Validation	141
Appendix 7. Result of Empirical Item Validation in Small Scale Test	142
Appendix 8. Result of Reliability in Small Scale Test	144
Appendix 9. Result of Discrimination power in Small Scale Test	145
Appendix 10. Result of Difficulty Level in Small Scale Test	147
Appendix 11. Result of Effectiveness of Distractor in Small Scale Test.....	148
Appendix 12. Result of Empirical Item Validation in Large Scale Test	149
Appendix 13. Result of Reliability in Large Scale Test.....	151
Appendix 14. Result of Discrimination power in Large Scale Test	154
Appendix 15. Result of Difficulty Level in Large Scale Test.....	156
Appendix 16. Result of Effectiveness of Distractor in Large Scale Test.....	158
Appendix 17. Result of Students' Critical thinking Skills.....	160
Appendix 18. Letters of Research.....	162
Appendix 19. Documentation.....	165