LIST OF CONTENT

Ratification Sheet i
Biography ii
Abstract iii
Preface iv
List of Content vi
List of Figure ix
List of Table x
List of Appendix xi

CHAPTER I INTRODUCTION
1.1 Research Background 1
1.2 Problem Identification 4
1.3 Limitation Problem 4
1.4 Problems Formulation 4
1.5 Research Objectives 4
1.6 Research Benefits 5

CHAPTER II LITERATURE REVIEW
2.1 Definition of Learning 6
2.2 Definition of Learning Model 7
2.3 Learning Purposes 8
2.4 Learning Activities 8
2.5 Learning Outcomes 9
2.6 Definition of Science 11
   2.6.1 Importance of Science Teaching 11
   2.6.2 Approaches to Science Teaching 12
   2.6.3 Process of Science 13
2.7 Conventional Learning Model 14
   2.7.1 Steps of Conventional Learning 14
2.7.2 The Advantages and Disadvantages

2.8 Discovery Learning Model
  2.8.1 Aims of Discovery Learning
  2.8.2 Syntax of Discovery Learning
  2.8.3 The Advantages and Disadvantages

2.9 Teaching Material
  Temperature and Heat
    2.9.1 Thermometer and Temperature Measurement
    2.9.2 Body Expansion
    2.9.3 Heat
    2.9.4 Heat Transfer

2.10 Journal about Discovery Learning Model

2.11 Conceptual Framework

2.12 Research Hypothesis

CHAPTER III RESEARCH METHOD

3.1 Research Location and Research Time

3.2 Population and Sample of the Research
  3.2.1 Population of Research
  3.2.2 Sample of Research

3.3 Research Variable

3.4 Type and Research Design
  3.4.1 Type of Research
  3.4.2 Design of Research

3.5 Research Instrument
  3.5.1 Validity Test

3.6 Research Procedure

3.7 Observation

3.8 Data Analysis Techniques
  3.8.1 Determine Average Value
  3.8.2 Determine The Standard Deviation
3.8.3 Normality Test 48
3.8.4 Homogeneity Test 49
3.8.5 Hypothesis Test 49

CHAPTER IV RESEARCH RESULT AND DISCUSSION
4.1 Research Result 53
  4.1.1 Pre-test Data of Student in Experiment and Control Class 53
  4.1.2 Post-test Data of Students in Experiment and Control Class 54
4.2 Data Analysis 54
  4.2.1 Normality Test 54
  4.2.2 Homogeneity Test 54
  4.2.3 Hypothesis Test 55
4.3 Observation of Student’s Learning Activities 56
4.4 Discussion 56

CHAPTER V CONCLUSION AND SUGGESTION
5.1 Conclusion 62
5.2 Suggestion 62

REFERENCES 63