

TABLE OF CONTENTS

	Page
LEGITIMATION SHEET	i
BIOGRAPHY	ii
ABSTRACT	iii
PREFACE	iv
TABLE OF CONTENTS	vi
LIST OF TABLES	viii
LIST OF FIGURES	vi
LIST OF APPENDIXES	ix
CHAPTER I INTRODUCTION	
1.1 Background	1
1.2 Problem Identification	6
1.3 Problem Limitation	6
1.4 Problem Formulation	6
1.5 Research Objective	7
1.6 Research Benefit	7
CHAPTER II LITERATURE REVIEW	
2.1 Theoretical Framework	8
2.1.1 Learning Definition	8
2.1.2 Learning Activity	10
2.1.3 Learning Outcome	12
2.1.4 Definition of Cooperative Learning	13
2.1.4.1 Excellence of Group Investigation	14
2.1.4.2 Advantages of Using Cooperative Learning	14
2.1.4.3 Syntax of Cooperative Learning	14
2.1.5 Group Investigation	17
2.1.5.1 Excellence of Group Investigation	17
2.1.5.2 Impact of Group Investigation	17
2.1.5.3 Social System Model of Group Investigation	19
2.2 Conventional Learning	19
2.3 Learning Outcome	20
2.3.1 Conceptual Knowledge	22
2.4 Subject Matter	30
2.4.1 Distance and Displacement	30
2.4.2 Velocity and Speed	30
2.4.3 Average Velocity and Instantaneous Velocity	30
2.4.4 Average Acceleration and Instantaneous Acceleration	31
2.4.5 Uniform Motion	31

2.4.6 Uniformly Accelerated Motion	32
2.4.7 Free Falll Motion	32
2.4.8 Vertical Motion	33
2.5 Group Investigation Journal	34
2.7 Conceptual Framework	37
2.7 Hypothesis of Research	38
CHAPTER III RESEARCH METHODS	
3.1. Research Location	39
3.2. Population and Sample Research	39
3.2.1. Population of Research	39
3.2.2. Sample of Research	39
3.3 Research Variables	39
3.3.1 Independent Variable	39
3.3.2 Dependent Variable	40
3.4.Type and Research Design	40
3.4.1 Type of Research	40
3.4.2.Design of Research	40
3.5. Research Instrument	41
3.5.1 Instrument of Student Learning Outcome	41
3.5.2 Validity Test	41
3.6. Research Procedure	42
3.7. Data Analysis Techniques	44
3.7.1. Determine Average Value	44
3.7.2. Determine TheStandard Deviation	44
3.7.3. Normality Test	44
3.7.4. Homogeneity Test	45
3.7.5. Hypothesis Pre Test	45
3.7.6. Hypothesis Post Test	45
CHAPTER IV RESULT AND DISCUSSION	
4.1 Result of Research	48
4.1.1Student Outcomes on Experiment Class	50
4.1.2Student Outcomes on Control Class	51
4.1.3Data Analysis	51
4.1.4 Hypothesis Test Result	52
4.2 Discussion	53
4.2.1 Outcomes of Experiment Class	53
4.2.2 Outcomes of Control Class	54
4.2.3Outcomes of Experiment and Control Class	54
CHAPTER IV RESULT AND DISCUSSION	
5.1 Conclusion	57
5.2 Suggestion	57
REFERENCE	58
APPENDIX	61