CONTENT

	Page
Ratification Sheet	i
Biography	ii
Abstract	iii
Acknowledgement	iv
Table of Content	ν
List of Figure	vi
List of Table	vii
List of Appendix	viii
CHAPTER I. INTRODUCTION	
1.1 Background	1
1.2 Problem Identification	4
1.3 Problem formulation	4
1.4 Problem limitation	4
1.5 Research objective	5
1.6 Benefit of research	5
1.7 Operational definition	6
CHAPTER II. LITERATURE STUDY	
2.1 Theoretical Framework	7
2.1.1 Learning And Learning Outcomes	7
2.1.2 Sense of Responsibility	8
2.1.3 Problem Based Learning strategy	10
2.1.3.1 Syntax for Problem Based Learning	12
2.1.4 Direct Instruction Method	13
2.1.5 Media	13
2.1.5.1 Useful of Media	15
2.1.5.2 Selection of Media	16
2.1.6 Media Presentation	16

2.1.7 Learning Video	17
2.1.8 Reaction Rate	17
2.1.8.1 Molarity	17
2.1.8.2 The Rate of Reaction	20
2.1.8.3 Relationship Reaction Rate and Coefficient of Reaction	21
2.1.8.4 The Equation of Reaction Rate and Reaction Order	22
2.1.8.5 Factors That Affect the Reaction Rate	24
2.1.8.6 Collision Theory	25
2.1.8.7 Relationship between Collision Theory	
and Factors That Influence the Reaction Rate	26
2.1.8.8 The Application of Concept The Reaction Rate	29
2.2 Conceptual Framework	30
2.3 Hypothesis	31
CHAPTER III. RESEACRH METHOD	
3.1 Time and Research Location	32
3.2 Population and Sample of Research	32
3.2.1 Research Population	32
3.2.2 Research Sample	32
3.3 Variable and Instrument of Research	32
3.3.1 Independent Variable	32
3.3.2 Dependent Variable	32
3.3.3 Control Variable	32
3.4 Research Instrument	33
3.5 Type And Design of Research	33
3.6 Research Procedure	34
3.7 Data And Collection Technique	35
3.7.1 Validity of Item Test	35
3.7.2 Reliability of Item Test	36
3.7.3 Difficulty Level	36
3.7.4 Different Index	37
3.8 Data Analysis Technique	37

3.8.1 Normality Test	37
3.8.2 Homogeneity Test	38
3.8.3 Improvement of Learning Outcomes	38
3.9 Hypothesis Test	38
CHAPTER IV. RESULT AND DISCUSSION	
4.1 Instrument to Measure The Accuracy of Instrument	39
4.1.1 Validity of Instrument Test	39
4.1.2 Reliability of Instrument Test	39
4.1.3 Difficulty Index	40
4.1.4 Discrimination Index	40
4.2 Instrument to Measure The Learning Outcomes And	
Responsibility Sense	40
4.3 Pre-requirement Test of Analyzing Data	43
4.3.1 Test of Normality Data	42
4.3.2 Test of Homogeneity Data	43
4.3.3 Hypothesis Testing	44
4.3.4 The Effectively Learning of Problem Based Learning (PBL)	
4.3.5 That Integrated with Multimedia Based on Computer	46
4.4 Discussion	47
CHAPTER V. CONCLUSSION AND SUGGESTION	
5.1 Conclusion	49
5.2 Suggestion	49

Reference