

TABLE OF CONTENTS

LEGALIZATION SHEET.....	i
STATEMENT OF ORIGINALITY	ii
LETTER OF PUBLICATION APPROVAL	iii
BIOGRAPHY.....	iv
ABSTRACT.....	v
ACKNOWLEDGEMENT.....	vi
TABLE OF CONTENT.....	viii
LIST OF TABLE.....	xi
LIST OF FIGURE	xii
LIST OF APPENDIX.....	xii
CHAPTER I INTRODUCTION	1
1.1. Background	1
1.2. Identification of Problem.....	6
1.3. Scope of Problem.....	6
1.4. Formulation of The Problem.....	7
1.5. Research Purpose.....	7
1.6. Benefit Research.....	7
CHAPTER II LITERATURE STUDY.....	8
2.1. Theoretical Framework.....	8
2.1.1. The Nature of Learning Chemistry.....	8
2.1.2. Learning Outcomes.....	9
2.1.3. Factors That Influence Learning.....	10
2.1.4. Motivation to Learn	11
2.1.5. The Nature of The Learning Model.....	13
2.1.6. Problem Based Learning (PBL) Learning Model.....	14
2.1.6.1. Steps in Problem Based Learning.....	15
2.1.6.2. Preparation for Implementation of Problem Based Learning.....	18
2.1.6.3. Strengths and Weaknesses of PBL Learning Models.....	20
2.1.7. Educational Media	21
2.1.8. Audiovisual Media.....	23
2.1.8.1. Video	23

2.1.9. Conventional Learning	24
2.1.10. Nomenclature Material Compounds	26
2.1.10.1. Nomenclature of Compounds	26
2.2. Framework of Thinking	32
2.3. Research Hypothesis	34
CHAPTER III RESEARCH METHODOLOGY.....	35
3.1. Research Methodology	35
3.2. Place and Time of Research.....	36
3.3. Population and Sample	36
3.3.1. Population	36
3.3.2. Samples.....	36
3.4. Research Variables	36
3.5. Operational Definition	37
3.6. Data Collection Technique	37
3.6.1. Preparation Stage	37
3.6.2. Implementation Stage	38
3.7. Research Instrument	41
3.7.1. Test Instrument	41
3.7.2. Questionnaire of Motivation.....	41
3.7.3. Test Validity	42
3.7.4. Test Reliability.....	42
3.7.5. Difficulty Index.....	44
3.7.6. Distinguishing Power of The Problem.....	44
3.8. Data Analysis Technique	45
3.8.1. Normality Test	46
3.8.2. Data Homogeneity Test	46
3.8.3. Hypothesis Testing	46
3.8.4. Improved Learning Outcomes	48
3.8.5. Calculation of Student Motivation.....	48
3.8.6. Correlation Test.....	49
CHAPTER IV RESULT AND DISCUSSION	51

4.1. Research Results	51
4.1.1. Description of Research Results	51
4.1.2. Validity of The Test	51
4.1.3. Difficulty Level.....	51
4.1.4. Difference Power Test	52
4.1.5. Test Reliability.....	52
4.2. Data Analysis	53
4.2.1. Calculating Average Pre-test and Post-test Values.....	53
4.2.2. Normality Test	54
4.2.3. Data Homogeneity Test	55
4.2.4. Hypothesis Testing	56
4.2.5. Improved Learning Outcomes (Gain).....	56
4.2.6. Analysis of Student Motivation	57
4.2.7. Test Normality in Student Motivation	57
4.2.8. Test The Homogeneity of Student Motivation	58
4.2.9. Test The Student Motivation Hypothesis	58
4.2.10. Correlation of Student Learning Outcomes and Motivation	59
4.3. Discussion	59
4.3.1. Excellence Problem Based Learning and Audiovisual.....	60
4.3.2. Student Learning Outcomes.....	61
4.3.3. Student Motivation	62
CHAPTER V. CONCLUSION AND SUGGESTION.....	63
5.1. Conclusion	63
5.2. Suggestion	63
REFERENCES	64
APPENDIX.....	65