

TABLE OF CONTENT

Legalization Page	i
Biography	ii
Abstract	iii
Acknowledgment	iv
Table of Content	vi
List of Figure	viii
List of Table	ix
CHAPTER I INTRODUCTION	1
1.1. Research Background	1
1.2. Problem Identification	4
1.3. Problem Scope	4
1.4. Research Question	4
1.5. Research Objectives	5
1.6. Research Benefits	5
1.7. Operational Defenition	5
CHAPTER II THEORITICAL REVIEW	6
2.1. Theoritical Framework	6
2.1.1. Learning Understanding	6
2.1.2. Factors Affecting Learning	6
2.1.3. Definition of Problem	8
2.1.4. Definiton of Problem Solving	8
2.1.5. Learning Style	9
2.1.6. The Concept of Learning Style	11
2.1.7. The Classification of Learning Style	12
2.1.8. VAK (Visual,Auditory and Kinesthetic) Learning Style	13
2.2. The Human Skeletal Systems	15
2.2.1. The skeletal system	15
2.2.2. The Function of Skeleton	15
2.2.3. Bone Growth	16
2.2.4. Bone Structure	16
2.2.5. Joints	17
2.2.6. Muscle	18
2.2.7. How muscle work	19
2.2.8. Skeleton	20
2.2.9. Types of bones	21
2.2.10. The structure and function of bone tissue	21
2.2.11. The Articular System	21
2.2.12. Joints Movement	22
2.2.13. Mechanism of muscle	22
2.3. Bloom Taxonomy	23
2.4. Research Hypothesis	25
CHAPTER III RESEARCH METHODS	26
3.1. Location and Time of Research	26
3.1.1. Location of Research	26

3.2. Population and Sample	26
3.2.1. Population	26
3.2.2. Sample	26
3.3. Research Variables	26
3.4. Research Design	27
3.5. Research Procedures	27
3.6. Research Instruments	28
3.6.1. Essay Test	28
3.6.2. Questionnaires of Learning Style	29
3.7. Data collection technique	31
3.7.1. Validity test	31
3.7.2. Reliability	32
3.7.3 Difficulty Level Test	33
3.8. Data Analysis Techniques	34
3.8.1. The Descriptive Statistics Analysis	34
3.8.2 The Analysis of Prerequisite Test	34
3.8.2.1 Normality Test	34
3.8.2.2 Linierity Test	35
3.8.3. The Final Analysis of Regression Test	35
CHAPTER IV RESULT AND DISCUSSION	37
4.1 The Result	37
4.1.1 The Description of Data Research	37
4.1.2. The Characteristic of Teaching by Teacher	38
4.1.3. Prerequisite Test Analysis Results	38
4.1.3.1 Result of Normality Data	39
4.1.3.2 Result of Linearity Data	40
4.1.4 Final Data Analysis Results	40
4.1.4.1 Result Hypothesis Testing The Effect of Visual with PSA test	41
4.1.4.2 Hypothesis Testing The Effect of Auditory with PSA test	43
4.1.4.3 Hypothesis Testing The Effect of Kinesthetic with PSA test	45
4.2 Discussion of Research Results	47
4.2.1 The Effect of Student Visual Learning Style Toward Probelem Solving Ability In Grade XI Science SMA 1 Silaen	47
4.2.2 The Effect Student Auditory Learning Style Toward Probelem Solving Ability In Grade XI Science SMA 1 Silaen	48
4.2.3 The Effect Student Kinesthetic Learning Style Toward Probelem Solving Ability In Grade XI Science SMA 1 Silaen	50
4.2.4 The Effect of Student Learning Style (Visual, Auditory, Kinesthetic) Toward Probelem Solving Ability In Grade XI Science SMA 1 Silaen	51
CHAPTER V CONCLUSION AND SUGGESTION	53
5.1. Conclusion	53
5.2. Research Suggestion	54
REFERENCES	55
APENDICES	58

LIST OF FIGURES

Fig.2.1. The structure of vertebrate bone	16
Fig.2.2. The Joints of Human	17
Fig.2.3. Anatomic Structure of Muscle	19
Fig 2.4. Relaxed and Contraction Muscle	19
Fig 2.5. The kind of Skeleton	19
Fig 2.6. Human Skeletal	20
Fig 2.7. Part of Articular System	22
Fig 2.8. Comparing Old and New Version of Bloom	24
Fig 4.1 Histogram of frequency distribution of Student's Learning Style (Visual, Auditory, Kinesthetic) score with Problem Solving Ability	38



THE
Character Building
 UNIVERSITY

LIST OF TABLE

Table.2.1. Cognitive Domain Based on Bloom's Taxonomy Criteria	23
Table 3.1. Calculation for Number of Samples in Each Class	25
Table 3.2. The Grid of Learning Outcomes Test	29
Table 3.3. Gradation of Value from Likert Scale	30
Table 3.4. Visual learning Style Questionnaire Grids	30
Table 3.5. Auditory Learning Style Questionnaire Grids	30
Table 3.6. Kinesthetic Learning Style Questionnaire Grids	31
Table 3.7 Index Classification of Validity Test	32
Table 3.8. Index Classification of Reliability Test	33
Table 3.9. Index Classification of Difficulty Level Test	33
Table 4.1. Result of Research of Learning Style and Problem Solving Ability	37
Table 4. 2 Summary of Results from Normality Test	39
Table 4.3 Summary of Results from Linearity Test	40
Table 4.4. The Regression Analysis Between Visual And Problem Solving Ability	41
Table 4.5. The Results of Coefficients Regression Between Visual And Problem Solving Ability	41
Table 4.6 Results of Product Moment Correlation Between Visual Style And Problem Solving Ability	42
Table 4.7 The Results of Regression From ANOVA Between Auditory And Problem Solving	43
Table 4.8 The Results of Regression Analysis Between Auditory Learning Style And Problem Solving	44
Table 4.9 Results of Product Moment Correlation Analysis Between Auditory and Problem Solving	44
Table 4.10 The Results of Regression Analysis From ANOVA Between Kinesthetic And Problem Solving	45
Table 4.11 The Results of Regression Analysis Between And Problem Solving	46
Table 4.12 Results of Product Moment Correlation Analysis Between Kinesthetic And Problem Solving	46

LIST OF APPENDIX

Apendix 1 Visual Learning Style Questionnaire	58
Apendix 2 Appendix 2 Auditory Learning Style Questionnaire	60
Apendix 3 Appendix 3 Kinesthetic Learning Style Questionnaire	62
Apendix 4. Problem Solving Ability Test	64
Apendix 5 Result of Validity Problem Solving Ability Test Instrument	66
Apendix 6 Step Calculation of Validity Problem Solving Ability Test Instrument	67
Apendix 7 Result of Reliability Problem Solving	69
Apendix 8 Step Calculation of Reliability in Problem Solving Ability	70
Apendix 9 Result of Difficulty Level from Problem Solving Ability	71
Apendix 10 Step Calculation of Difficulty Level in Problem Solving Ability Test	72
Apendix 11 Data Description Result from Research of Learning Style and PSA	74
Apendix 12 Data Description of Student Learning Style	79
Apendix 13 Data Description of Problem Solving Ability Test	80
Apendix 14 Step Calculation of Test Prerequisites for Normality of Data	81
Apendix 15 Step Calculation of Test Prerequisites for Linierity of Data	84
Apendix 16 Step Calculation of Final Data Analysis for Linear Regression	87