

TABLE OF CONTENTS

	Page
Ratification	I
Biography	ii
Abstract	iii
Acknowledgment	iv
Table of contents	vi
List of Figures	ix
List of Tables	x
List of Appendices	xi
CHAPTER I	
INTRODUCTION	
1.1. Background	1
1.2. Problem Identification	3
1.3. Problem Formulation	4
1.4. Problem Limitations	4
1.5. Objective	5
1.6. Benefit Research	5
1.7. Operations Definition	5
CHAPTER II	
LITERATURE	
2.1. Instructional Materials	7
2.2. Forms - Form of Instructional Materials	7
2.3. Development of Instructional Materials	7
2.4. Laboratory Practical Activity	8
2.4.1 The Role of Laboratory in Learning	9
2.4.2 Factors Inhibiting Laboratory Management	10
2.5. Practical Guidance	10
2.5.1 Components of Practicum Guidelines	11

2.5.2	Stages of Practical Activities	12
2.5.3	Importance of Practical science	13
2.6.	Standards Guidance Practicum Based BSNP	14
2.7.	Materials acids - Bases	18
2.8.	Conceptual Framework	25
2.9.	Hypothesis	25

CHAPTER III

METHODS

3.1.	Place and time Research	26
3.2.	Population and Research sample	26
3.3.	Research Instruments	26
3.3.1.	Instruments test	26
3.3.2.	Instruments Non test	27
3.4.	Types of Research	27
3.5.	Research Procedure	28
3.5.1.	Development of High School Chemistry Practice Guidance	31
3.5.2.	Practical Guidance Developed Validation	31
3.5.3.	Trial Guidance Developed Practical	31
3.6.	Data collection Techniques	32
3.7.	Data Analysis Techniques	32

CHAPTER IV

RESULTS AND DISCUSSION

4.1.	Preliminary Analysis Selected Chemical Practicum Guide High School Chemistry Based on BSNP	35
4.2.	Development of Chemical Practicum Guide	37
4.3.	Practical Guidance Validation Developed	38
4.3.1.	Practical Guidance Validation Results by lecturer	39
4.3.2.	Practical Guidance Validation Results by Teachers	39
4.3.3.	Mean Results of Practical Guidance Validation by Lecturers and	

Teachers	39
4.4. Data Analysis Research Instrument Researchers	42
4.4.1. Validity of the Test	42
4.4.2. Reliability of the Test	42
4.4.3. Level of the Tests	43
4.4.4. Different Power Test Differentiating	43
4.5. Guided Testing Results PBL-Based Practices developed	44
4.5.1. Student Learning Results	44
4.6. Student Response Analysis of the Practical Guidance after Developed	46
4.7. Percent (%) Effectiveness	47
CHAPTER V	
CONCLUDING AND SUGGESTIONS	
5.1. Conclusion	48
5.2. Suggestions	48
REFERENCES	49