

TABLE OF CONTENT

APPROVAL SHEET	
ABSTRACT	i
ABSTRAK	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	v
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF DIAGRAM	ix
APPENDICES	x
CHAPTER I . INTRODUCTION	
1.1. Background	1
1.2. Identification of Problem	7
1.3. Scope of Study	8
1.4. Research Question	9
1.5. Objectives	10
1.6. Significance of Research	11
1.6.1. Theoretical Significance	11
1.6.2. Practical Significance	11
CHAPTER II. LITERATURE REVIEW	
2.1. Theoretical Framework	12
2.1.1. Assessment	12
2.1.2. Type of Assessment	13
2.1.3. Role of Assessment	15
2.1.4. Textbook and Educational Achievement	15
2.1.5. Role of Textbook	16
2.1.6. Scientific Literacy	17
2.1.7. Scientific Learning in 2013 Curriculum	20
2.1.8. PISA	21
2.1.8.1. Focus of PISA	21
2.1.8.2. Dimension of PISA Scientific Literacy	23
2.1.9. Indonesian Achievement in PISA Survey	27
2.1.10. Bloom Taxonomy	27
2.1.11. Sex Differences	32
2.2. Relevant Research	34
CHAPTER III. RESEARCH METHOD	
3.1. Time and Location of Research	36
3.2. Population and Sample	36
3.2.1. Population	36
3.2.2. Sample	37

3.3. Methods and Design of research	38
3.4. Operational Definition.....	39
3.4.1. Biology PISA Question.....	39
3.4.2. Biology Exercise Construction in Science Textbook.....	39
3.4.3. Students' Sex.....	40
3.4.4. School Level.....	40
3.4.5. PISA Test Achievement.....	40
3.5. Research Instrument.....	41
3.5.1. Item Analysis and Result of Research Instrument	43
3.6. Research Procedure	45
3.7. Data Analysis.....	49
3.8. Hypothesis	53

CHAPTER IV. RESULT AND DISCUSSION

4.1. Result and Data Analysis.....	55
4.1.1. Distribution of Assessment Questions Based on Bloom New Taxonomy.....	55
4.1.2. Question Distribution Based on the Type of the Questions	58
4.1.3. Students' Scientific Literacy	59
4.1.4. Students' Responses to Each Item.....	66
4.1.5. Sex Differences to Scientific Literacy and Its Competencies	67
4.1.6. School Level Differences to Scientific Literacy and Its Competencies	68
4.2. Discussion	71
4.2.1. Distribution of Question Based on Bloom New taxonomy.....	71
4.2.2. Distribution of Question Based on Type of Question.....	74
4.2.3. Students' Scientific Literacy.....	75
4.2.4. Students' Responses to Items.....	79
4.2.5. Sex Differences to Scientific Literacy and Its Competencies	103
4.2.6. School Level Differences to Scientific Literacy and Its Competencies	105
4.3. Limitation of Research.....	106

CHAPTER V. CONCLUSION, IMPLICATION, AND SUGGESTION

5.1. Conclusion	107
5.2. Implication.....	109
5.3. Suggestion.....	110

REFERENCE.....	111
-----------------------	------------