

CONTENTS

	Page
Sheet of Agreement	<i>i</i>
Biography	<i>ii</i>
Abstract	<i>iii</i>
Acknowledgment	<i>iv</i>
Contents	<i>vi</i>
List of Figure	<i>ix</i>
List of Table	<i>x</i>
List of Appendix	<i>xi</i>
 CHAPTER I INTRODUCTION	 1
1.1. Background	1
1.2. Problem Identification	6
1.3. Problem Limitation	7
1.4. Problem Formulation	7
1.5. Research Objective	7
1.6. Research Advantages	8
1.7. Operational Definitions	8
 CHAPTER II LITERATURE REVIEW	 10
2.1. Theoretical Framework	10
2.1.1. Communication	10
2.1.2. Communication in Learning	11
2.1.3. Mathematical Communication	13
2.1.4. Mathematical Communication Ability	16
2.1.5. Cooperative Instructional Model	18
2.1.6. AIR Instructional Model	21
2.1.7. Syntax of AIR Instructional Model	23
2.1.8. Advantages and Disadvantages of AIR Instructional Model	24
2.1.9. Learning Theory Supporting AIR Model	24
2.2. Relevant Research	25
2.3. Conceptual Framework	26
2.4. Action Hypothesis	28
 CHAPTER III RESEARCH METHODOLOGY	 29
3.1. Research Type	29
3.2. Research Location and Time	29

3.2.1. Research Location	29
3.2.2. Research Time	30
3.3. Research Subject and Object	30
3.3.1. Research Subject	30
3.3.2. Research Object	30
3.4. Procedure and Research Design	30
3.4.1. Cycle I	32
3.4.1.1. Plan I	32
3.4.1.2. Action I	33
3.4.1.3. Observation I	34
3.4.1.4. Reflection I	35
3.4.2. Cycle II	35
3.4.2.1. Plan II	35
3.4.2.2. Action II	36
3.4.2.3. Observation II	36
3.4.2.4. Reflection II	36
3.5. Data Sources	39
3.6. Research Instrument	39
3.6.1. Mathematics Communication Ability Test	39
3.6.2. Observation Sheet	40
3.6.3. Data Analysis Technique	41
3.7. Successful indicator	46
CHAPTER IV RESULT AND DISCUSSION	47
4.1. Research Result	47
4.1.1. Cycle I	47
4.1.1.1. Planning Stage I	47
4.1.1.2. Action Stage I	48
4.1.1.3. Observation Stage I	49
4.1.1.4. Reflection Stage I	49
4.1.2. Cycle II	52
4.1.2.1. Planning Stage II	52
4.1.2.2. Action Stage II	52
4.1.2.3. Observation Stage II	52
4.1.2.4. Reflection Stage II	53
4.2. Discussion	57

4.3. Research Limitation	59
CHAPTER V CONCLUSION AND RECOMMENDATION	60
5.1. Conclusion	60
5.2. Recommendation	60
REFERENCES	61
APPENDIX	63