

TABLE OF CONTENT

	<i>Page</i>
APPROVAL SHEET	<i>i</i>
ABSTRACT	<i>ii</i>
PREFACE	<i>vii</i>
TABLE OF CONTENT	<i>iii</i>
LIST OF FIGURE	<i>vi</i>
LIST OF TABLE	<i>viii</i>
APENDIX LIST	<i>ix</i>
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Problem Identification	9
1.3 Problem Limitation	9
1.4 Problem Formulation	10
1.5 Research Objective	10
1.6 Resarch Benefits	10
1.7 Oprational Definitions	11
CHAPTER II LITERATURE REVIEW	13
2.1 Spatial Ability	13
2.2 The Answer Process	15
2.3 Learning Media	16
2.3.1 Definition of Media	16
2.3.2 Basic Theory of Use of Learning Media	17
2.3.3 Functions and Benefits of Learning Media	19
2.3.4 Types of Learning Media	21
2.3.5 Development of Interactive Learning Media	23
2.3.6 Quality of Learning Media Development	24
2.4 <i>GeoGebra Software</i>	25
2.5 Teaching Material	29
2.5.1 Triangle	29
2.5.2 The Quadrangle	30
2.6 Relevant Research	42

2.7	Conceptual Framework.....	43
CHAPTER III RESEARCH METHODOLOGY		46
3.1	Location and Time Research	46
3.2	Population and Sample Research.....	46
3.3	Research Type	46
3.4	Research Stages	47
3.5	Research Instrument	51
3.6	Techniques of Data Analysis	55
3.6.1	Quantitative Data Analysis	55
3.6.1.1.	Learning Media.....	55
3.6.1.2.	Practical Learning Media.....	56
3.6.1.3.	The Effectiveness of Learning Media.....	56
3.6.1.4.	Spatial Ability Tes Analysis	57
3.6.1.5.	Analysis of Students' Spatial Mathematical Ability Improvement	57
3.6.1.6.	Student Answering Process Analysis	58
3.6.2	Qualitative Data Analysis	58
3.6.2.1	Indicator of the Success of GeoGebra Learning Media.....	58
CHAPTER IV RESULT AND DISCUSSION		60
4.1	Research Results	60
4.1.1	Needs Assessment.....	60
4.1.1.1	Problem Analysis.....	60
4.1.1.2	Curriculum Analysis.....	61
4.1.1.3	Analysis of Learning Objectives	61
4.1.1.4	Results of Needs Analysis	62
4.1.2	Design	63
4.1.2.1.	Design of Learning Devices and Spatial Ability	63
4.1.2.2.	Media Design Making	63
4.1.3	Development and Implementation.....	63

4.1.3.1. Result of Making GeoGebra Assisted Learning Media.....	63
4.1.3.2. GeoGebra Assisted Learning Media Validation	68
4.1.3.3. Revision of Learning Media	75
4.1.3.4. Description of Application of GeoGebra Learning Media.....	76
4.1.3.5. Practicality of Learning Media	78
4.1.3.6. The Effectiveness of GeoGebra Assisted Learning Media to Improve Students' Mathematical Spatial Ability.....	81
4.1.3.7. Description of the Answer Process on the Spatial Ability Test.....	84
4.2 Discussion.....	87
4.3 Research Limitations	90
CHAPTER V CONCLUSION.....	92
5.1 Conclusion.....	92
5.2 Suggestion	93
REFERENCE.....	94
ATTACHMENT	98

