

TABLE OF CONTENTS

PREFACE.....	i
ACKNOWLEDGEMENT.....	ii
ABSTRACT.....	iii
TABLE OF CONTENTS.....	iv
LIST OF TABLES.....	vi
LIST OF FIGURES.....	vii
CHAPTER I INTRODUCTION.....	1
A. Background.....	1
B. Research Question.....	5
C. Purpose.....	5
D. Benefit.....	5
E. Research Methodology.....	6
F. Systematic of Writing.....	7
CHAPTER II REVIEW OF LITERATURE.....	8
A. Design Based Learning.....	8
B. Definition of Creativity.....	15
C. Creative Thinking as a Synthesis between Lateral and Vertical Thinking.....	15
D. Differences between Lateral Thinking and Vertical Thinking.....	16
E. Assessment Scale.....	22
F. Process of Creativity.....	22
G. Characteristics of Creative Thinking Skill.....	23
H. Wallach-Kogan Theory Creativity Test.....	25
I. Portfolio Assessment.....	27
J. Revised Taxonomy Bloom.....	32
K. Cambridge IGCSE Curriculum.....	36
L. Concept of Electricity (Building Alarm System).....	40
CHAPTER III METHODOLOGY.....	43
A. Operational Definition.....	43
B. Population and Sample of Research.....	44
C. Research Scheme.....	45

D. Procedure of Collecting Data.....	47
E. Data Collection.....	48
F. Instruments.....	50
G. Validity Test of Instruments.....	53
H. Data Analysis.....	53
CHAPTER IV RESULTS AND DISCUSSION.....	56
A. Results.....	56
1. Implementation of Design Based Learning.....	57
2. Students' Creative Thinking Level.....	70
3. Profiles of Students' Creative Thinking Skill.....	72
4. Cognitive Achievement in The Electricity Concept.....	76
B. Discussion.....	
1. Implementation of Design Based Learning.....	78
2. Students' Creative Thinking Level.....	82
3. Profiles of Students' creative Thinking Skill.....	89
4. Cognitive Achievement in The Electricity Concept.....	99
CHAPTER V CONCLUSION AND RECOMMENDATION.....	104
A. Conclusion.....	104
B. Recommendation.....	105
BIBLIOGRAPHY.....	107
APPENDICES.....	112