

EXPLORING LEARNING DIFFICULTIES IN SCHOOL LEVEL GEOMETRY

A

THESIS

BY

RADHIKA SAPKOTA

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

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LETTER OF CERTIFICATE

This is to certify that Mis. Radhika Sapkota, a student of academic year 2070/2071 B.S. with thesis no. 1290, campus Roll no. 253, exam Roll no. 280485 and TU Registration no. 9-2-640-47-2009 has completed this thesis under supervision Mr. Krishna Prasad Adhikari during the period prescribed by the rules regulation of Tribhuvan University, Kirtipur Kathmandu, Nepal. This thesis entitled **“Exploring Learning Difficulties in School Level Geometry”** embodies the result of this investigation conducted during the period of December 2016 to December 2017 under the Department of Mathematics Education, Central Department of Education, University Campus, Kirtipur Kathmandu. I hereby recommend and forward that this thesis be submitted for the evaluation to award the Degree of Master of Education.

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Date:

LETTER OF APPROVAL

A

THESIS

BY

Radhika Sapkota

Entitled

“Exploring Learning Difficulties in School Level Geometry” has been approved in partial fulfillment of the requirement for the degree of master’s education.

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RECOMMENDATION FOR ACCEPTANCE

This is to certify that Miss. Radhika Sapkota completed her M.Ed. thesis entitled **“Exploring Learning Difficulties in School Level Geometry”** under my supervision during the period prescribed the rules and regulation of Tribhuvan University Kirtipur, Kathmandu, Nepal. I recommended and forward her thesis to the Department of Mathematics Education to evaluate in final viva-voce.

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2017**By****Radhika Sapkota**

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DEDICATION

This work is dedicated to my father Mr. Dilli Ram Sapkota and mother Mrs. Tika Kumari Sapkota who even in a very difficult situation gave me a great span of their life for what I am now.

DECLARATION

This thesis contains no materials, which has been accepted for the award of other degree in any institutions. To the best of acknowledgement and belief thesis contains the no materials previously published any others except due acknowledgement has been make.

.....

Miss. Radhika Sapkota

Date:

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ABSTRACT

Most of the students regard mathematics as a difficult and dislike subject in school education. However, different studies showed that it could be made easier if we can find the cause of difficulties in learning mathematics. So, this study intended to determine the causes of difficulties in learning Geometry and to minimize the difficulties in learning geometry at secondary level. This study based on mixed method design. The researcher took interview and questionnaire with teachers and students. I observed the classroom for twenty days class. I collected the data and analyzed the obtained data with the help of conceptual understanding. Observation and achievement test among 200 students were conducted. Participants of this study were selected by simple random sampling method.

Responses obtained from class observation and questionnaires were categorized based on Likart scale Mean Weightage score was collected to analyze the data obtained from observation and questionnaire. Percentage score was collected to analyze the data obtained from achievement test. In addition to that answer sheets were analyzed to identify the difficulties area in geometry. The data obtained from interview were analyzed descriptively.

Finally it is concluded that the students feel difficulties in learning geometry because of school environment, home environment, lack of pre- knowledge, motivation and interest, learning activities teaching methods and technique. If the school provides sufficient teaching materials about geometry, extra classes for weak students, teacher uses appropriate teaching methods and parents create good environment for practice then the difficulties in learning geometry would be minimize.

TABLE OF CONTENTS

	Page No.
<i>Letter of Certificate</i>	<i>i</i>
<i>Letter of Approval</i>	<i>ii</i>
<i>Recommendation for Acceptance</i>	<i>iii</i>
<i>Copyright</i>	<i>iv</i>
<i>Dedication</i>	<i>v</i>
<i>Declaration</i>	<i>vi</i>
<i>Acknowledgement</i>	<i>vii</i>
<i>Abstract</i>	<i>viii</i>
<i>Table of Content</i>	<i>ix</i>
 CHAPTERS	
I. INTRODUCTION	1-5
Background of the Study	1
Statement of the Problem	3
Significant of the Study	4
Objectives of the Study	4
Delimitation of the Study	4
Definition of the key terms	5
II. REVIEW OF RELATED LITERATURES	6-14
Empirical Review	6
Theoretical Literature	9
Conceptual Framework	12

III. METHODS AND PROCEDURES	15-18
Research Design	15
Population of the study	15
Sample of the study	15
Data Collection Tools	16
Source of Data	17
Data Collection Procedures	18
Data Analysis Procedures	18
IV. ANALYSIS AND INTERPRETATION OF DATA	19-43
Difficulties in Learning Geometry	19
Difficulties in Experimental Verification	20
Difficulties in Construction	22
Difficulties in Reasoning	24
Difficulties in Theorem Proving	26
Causes of Difficulties in Learning Geometry	28
Difficulties Related to Classroom Environment and Teaching Method	29
Difficulties Related to Learning Activities	32
Difficulties Related to Evaluation Technique	39
Difficulties related Motivation and Interest	42

V. SUMMARY, FINDING, CONCLUSION AND RECOMMENDATION 44-51

Summary and Findings 44

Conclusions 48

Recommendation for Educational Implication 49

Recommendation for the further Study 50

References

Appendices