

STUDENT'S DIFFICULTIES IN LEARNING SCHOOL GEOMETRY

STUDENT'S DIFFICULTIES IN LEARNING SCHOOL GEOMETRY

1316

SATROHAN MAHATO 2018

**A
THESIS
BY**

SATROHAN MAHATO

**FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE DEGREE OF MASTER OF EDUCATION**

SUBMITTED

TO

THE DEPARTMENT OF MATHEMATICS EDUCATION

CENTRAL DEPARTMENT OF EDUCATION

UNIVERSITY CAMPUS, KIRTIPUR

TRIBHUVAN UNIVERSITY

KATHMANDU, NEPAL

2018

Letter of Certificate

This is to certify that **Mr. Satrohan Mahato**, a student of the academic year 2070/2071 with the Campus Roll No. 425, Exam Roll No. 280524 and T.U. Regd. No. 9-2-379-136--2008 and Thesis No. 1316 has completed his thesis under supervision of Mr. Abatar Subedi, during the period prescribed by the rules and regulation of Tribhuvan University, Nepal. This thesis entitled “**Student's Difficulties in Learning School Geometry**” embodies the result of his investigation conducting the period 2016 in the Department of Mathematics Education, University Campus, Kirtipur, Kathmandu. I recommend and forward that his thesis be submitted for the evaluation to award the Degree of Masters of Education.

.....

(Assot. Proc. Laxmi Narayan Yadav)

HOD

Letter of Approval

This thesis entitled "**Student's Difficulties in Learning School Geometry**" submitted by **Mr. Satrohan Mahato** in Partial fulfillment of the requirement for the Master's Degree in Education has approved.

Vice-Voce Committee

Signature

Assoc. prof. Laxmi Narayan Yadav

.....

(HOD)

Prof. Dr. Bishnu Prasad Dhungana

.....

(External Supervisor)

Mr. Abatar Subedi

.....

(Internal Supervisor)

Date:-

Recommendation for Acceptance

This is to certify that **Mr. Satrohan Mahato** has completed his M.Ed. thesis entitled "**Student's Difficulties in Learning School Geometry**" under my supervision during the period prescribed the rules and regulation of Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommend and forward his thesis to the department of Mathematics Education to organized final vice-voce.

.....
Mr. Abatar Subedi

Supervisor

Date:-

© 2018

Copyright by Satrohan Mahato

This document is copyright material. Under law, no parts of
this document may be reproduced without the expressed
permission of the researcher.

All Right Reserved

Declaration

This dissertation contain no materials, which has accepted for the award of the other degree in any institutions. To the best of knowledge and belief this dissertation contains no materials previously published by any authors except due acknowledgement has been made.

Acknowledgement

I am highly indebted to my respected supervisor Mr. Abatar Subedi, Department of Mathematics Education, T.U. Kirtipur. His valuable constructive suggestions, instruction and scholarly guidance have become greatest property for this dissertation. Though, I haven't found any such word to express my deep gratitude to him for his kind help.

My sincere appreciation goes to Assoc. Prof. Mr. Laxmi Narayan Yadav, Head Department of Mathematics Education, T.U., Kirtipur, for his suggestions, support, inspiration and encouragement to complete this study. At the same time, I wish to express my gratitude to Prof. Dr. Lekhnath Sharma, Prof. Dr. Hari Prasad Upadhyay, Prof. Dr. Min Bahadur Shrestha, Dr. Bed Raj Acharya, Dr. Binod Dhakal and all the respected Department of Mathematics Education, T.U., Kirtipur for their valuable remarks, stimulation and encouragements to complete the study.

Especially, I am very much indebted to the school family of Jana Sewa higher secondary school, Kirtipur, Kathmandu, for their kind co-operation and providing opportunity for collection of data.

I am also thankful to my colleagues for their cooperation and help to collect the data for the study.

Finally, I am also thankful to my colleagues for their cooperation and help to collect the data for the study. I am very much grateful to my family for their inspiration and assistance throughout this work.

.....

Satrohan Mahato

Abstract

This study intended to find out students difficulties in learning school geometry at Kathmandu. Main objectives of study were to find difficulties faced by the students in learning geometry and cause of difficulties in learning geometry.

To fulfill above objectives the researcher conducted case study design with interview schedule and class observation form and descriptive method has used to interpret the obtained information. For this researcher selected one school from Kathmandu district by purposive sampling, this is Jana Sewa Higher Secondary School, Kirtipur. Eight students were selected for indepth interview. Similarly, mathematics teachers and head teacher and parent were also included for the interview.

The findings of the study shows that, learning geometry in secondary level is affected by so many factors such as lack of encouragement for study, congested and uncomfortable classroom for students, unavailability of teaching learning materials, lack of trained teachers. Similarly, lack of physical facilities and improperly arrangement, lack of good administration and negligence of students in learning geometry etc. The cause of difficulties in learning geometry due to the lack of prerequisite knowledge, irregular in class attendance and method of teaching adopted by the teacher. Similarly, there is not proper interaction between teacher and students, not sufficiently practice at home and not getting appropriate problem solving ways and rules.

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>Declaration</i>	<i>v</i>
<i>Acknowledgement</i>	<i>vi</i>
<i>Abstract</i>	<i>vii</i>
<i>Table of Contents</i>	<i>viii</i>
Chapters	
I: Introduction	1-7
Background of the Study	1
Statements of the Problems	4
Objectives of the Study	5
Significance of the Study	5
Delimitations of the Study	6
Operational Definitions of the Key Terms	7
II: Review of the Related Literature	8-17
Empirical Literature	8
Theoretical Review	13
Conceptual Framework	15
III: Methods and Procedures	18-21
Design of Study	18
Selection of the Study Area	19

Sample of the Study	19
Tools for the Study	19
Validity and Reliability of Tools	20
Data Collection Procedure	20
Data Analysis Procedures	21
IV: Analysis and Interpretation	22-32
Problems related to Pre-Knowledge of students	23
Problems related to teaching methods, material and techniques	24
Curriculum and Textbook	26
Problems related to student's activities in classroom	27
Learning Environment of Home and Class	29
Class Observation Note	30
V: Finding, Conclusion, Implication and Recommendations	33-36
Findings of the Study	33
Conclusion	33
Conclusion	34
Implication	34
Recommendations	36
References	
Appendix	