

**EXPLORATION OF STUDENTS ASSESSMENT PRACTICES IN
MATHEMATICS AT BASIC LEVEL**

A

THESIS

BY

DHRUBAPAUDEL

**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE
OF MASTERS' IN MATHEMATICS EDUCATION**

SUBMITTED

TO

THE DEPARTMENT OF MATHEMATICS EDUCATION

CENTRAL DEPARTMENT OF EDUCATION

UNIVERSITY CAMPUS

TRIBHUVAN UNIVERSITY

KIRTIPUR, KATHMANDU

2020

RECOMMENDATION FOR ACCEPTANCE

This is to certify that Mr. Dhruva Paudel has completed his M. Ed. Thesis entitled "**Exploration of Students Assessment Practices in Mathematics at Basic Level**" under my supervision during the period prescribed by the rules and regulations of Tribhuvan University Campus, Kirtipur, Kathmadu, Nepal. I recommended and forward his thesis to the Department of Mathematics Education to evaluate in final viva - voice.

.....

Prof. Dr. Bed Raj Acharya

(Supervisor)

March 6, 2020

Falgun 23, 2076

Letter of Approval

This thesis submitted by **Dhruba Paudel** entitled on "**Exploration of Students Assessment Practices in Mathematics at Basic Level**" has been approving in fulfillment for the requirements of the Degree of Master of Education.

Community for Viva- Voice

Signature

1. Prof. Dr. Bed Raj Acharya.....

(Chairman/Supervisor)

2. Prof. Uma NathPandey

.....

(External)

3. Krishna Prashad Bhatt

.....

(Member)

March 6, 2020

Falgun23, 2076

Letter of Certificate

This is to certify that Mr. Dhruva Paudel, a student of academic year 2071/072 with thesis number 1492, Exam Roll No. 28710277 and T.U., Registration No 9 - 2 – 658-17-2008 has completed his thesis for the period prescribed by the rules and regulation of T.U., Nepal. The thesis entitled " Exploration of students assessment practices in mathematics at basic level" embodies the result of his investigation conducted during the period of 2071/076 under the Department of Mathematics Education, Central Department of Education, University Campus, Tribhuvan University, Kritipur, Kathmandu. I recommend and forward that his thesis submitted for the evaluation for awarding the Degree of Master of Education.

.....

(Prof. Dr. Bed Raj Acharya)

Head

(Department of Mathematics Education)

Dedication

This is dedicated to my respected parents KhilNath Paudel and Gita Paudel, all my family members and friends who supported me in every situation of my life.

Declaration

I declare that this thesis is my own work which contains no materials on other accepted dissertation of degree award which has been already done in any institutions also I did declare that this thesis has not been submitted for any other degree.

Dhruba Paudel

.....

© 2019

Dhruba Paudel

This document is copyright materials be reproduced without the expressed permission

Of the researcher,

Defense Date:

All right reserved

ACKNOWLEDGEMENTS

I, as a researcher of this study, I would like to acknowledge the generous help given by my respective teachers and colleagues who were directly and indirectly involved carrying out this study. Firstly, I would like to extend my sincere gratitude to my respected supervisor Prof. Dr. Bed Raj Acharya, Head Department of Mathematics Education, T.U. Kirtipur, from whom I have got invaluable suggestions, encouragement, insightful comments and appreciable guidance with constitute the foundation for this study.

I am equally grateful to my respected teacher at the department of mathematics education, central department of education, University Campus, Tribhuvan University, who had provided lots of suggestions for different kinds of difficulties. I also like to thanks administrative personals at the department of mathematics education, central department of education, University Campus, Tribhuvan University.

I wish to acknowledge and express my profound gratitude to the head teachers and mathematics teachers of selected schools and Mr. Narayan Paudel and all the respondents for their valuable suggestions, advices and encouragement during my research work. Finally, my heartily honor goes to my parents and family for the invaluable contribution for my carrier and their patience and encouragement during my study.

.....

Dhruba Paudel

ABSTRACT

This study focused on exploration of students assessment practices in mathematics at basic level. The main objective of this study was to assess the present assessment practices in mathematics and to find out the challenge to effective use of formative assessments in mathematics. This was case study research having qualitative and descriptive nature. I selected two schools from kanchangaunpalika of Rupandehis district purposively. Four mathematics teachers, two head teachers, one resource person and five students to make FGD selected purposively. I observed each mathematics teachers' classes for one week and used interview guideline with head teachers, teachers and resource person to find out current practice of student assessment system and to identify challenges to use formative assessment. I made FGD with students to find out current practices of student assessment system. Collected information was analyzed descriptively with the help of theories and related literature cross match and triangulation were adapted to validate data.

The findings of the study were summative assessment has become an integral part of teaching because it is the only means of students evaluation as compared to formative assessment. In compared to the government school institutional schooling is found to provide regular homework, class work and checked it. Due to large number of students in government school homework and class work were provide to student but has not checked regularly. School which applied formative assessment system on that school result was improved and interest of parents and students also increasing day by day. Continuous assessment system helped students to securing good results in mathematics. Time consuming, lack of training, classroom diversity, students absents rate, lack of appropriate planning were the main challenges to implements formative assessment system.

TABLE OF CONTENTS

CHAPTERS	Page No.
Letter of Certificate	i
Letter of Approval	ii
Recommendation for Acceptance	iii
Copy right	iv
Dedications	v
Declaration	vi
Acknowledgement	vii
Abstract	viii
Table of Contents	ix
List of figures	xii
List of Photos	xiii
List of Abbreviations	xiv
Chapter I: INTRODUCTION	
Background of the Study	1
Statement of the Problem	5
Objectives of the Study	6
Justification of the Study	7
Delimitation of the Study	8
Definition of the Key Terms	8
Chapter II: REVIEW OF RELATED LITERATURE	
Empirical Literature	10
Theoretical Literature	18
Conceptual Framework	21

Chapter III: METHODS AND PROCEDURES

Design of the Study	23
Research Site	24
Sample	24
Sampling Process	25
Tools for data Collection	25
Data Collection Procedures	27
Data Analysis and Interpretation	27

Chapter IV: ANALYSIS AND INTERPRETATION OF DATA

Current Practice of Student Assessment	29
Summative Assessment	30
Formative Assessment	31
Homework	32
Class work	34
Project Work	35
Different Tests	36
Continuous assessment System	37
Challenges to Use of Formative Assessment	39
Time Consuming	40
Lack of training	40
Classroom diversity	41
Lack of appropriate planning	42
Students absent rate	43

Chapter V: FINDINGS, CONCLUSIONS AND IMPLICATIONS

Findings	44
Conclusion	45
Implications	45

REFERENCES**APPENDICES**

LIST OF FIGURES

	Page No.
Figure 1: Conceptual Framework	22
Figure 2: Policies of student assessment practices in the school of Nepal	29

LIST OF PHOTOS

Page No.

Photo 1: FGD with students

39

LIST OF ABBREVIATIONS

CAS -	Continuous Assessment System
FGD -	Focus Group Discussion
M.ED -	Masters of Education
NCF -	National Curriculum Framework
NESP -	National Education System Plan
Pdf. -	Portable Document Format
SEE-	School Education Examination
T.U. -	Tribhuvan University