

**COLLABORATIVE LEARNING METHOD IN TEACHING**

**MATHEMATICS**

**A**

**THESIS**

**BY**

**MADHUSUDAN GAUTAM**

**FOR THE PARTIAL FULFILLMENT OF REQUIREMENTS**

**FOR THE DEGREE OF MASTER OF EDUCATION**

**SUBMITTED TO**

**DEPARTMENT OF MATHEMATICS EDUCATION**

**CENTRAL DEPARTMENT OF EDUCATION**

**UNIVERSITY CAMPUS**

**KIRTIPUR**

**KATHMANDU**

**2016**

### Letter of Certificate

This is to certify that Mr. Madhusudan Gautam, a student of academic year 2069/2070 with exam Roll No. 281104/2070, Campus Roll No. 918/2069, T. U. Regd. No 9-2-320-239-2008 and thesis no 1061 has completed his thesis under my supervision, during the period prescribed by the rules and regulation of Tribhuvan University, Nepal. The thesis entitled "**Collaborative Learning Method in Teaching Mathematics**" embodies the result of his investigation conducting the period of 2016 at the Department of Mathematics Education, University Campus, Kirtipur, Kathmandu. I hereby, recommend and forward that his thesis be submitted for the evaluation as partial requirement to award the Degree of Master of Education.

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**Thesis**

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**"Collaborative Learning Method in Teaching Mathematics"** has been approved in partial fulfillment of the requirements for the Degree of Master of Education.

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## Acknowledgements

I am grateful to my supervisor Dr. Bed Raj Acharya, Associate Professor, Central Department of Mathematics Education. He constantly advised and encouraged me so that I am able to complete this work. I am highly obliged to Associate Professor, Laxmi Narayan Yadav, Head, for the favorable academic ambience he has created for the research activities at the Department. Moreover, I would like to thank Prof. Dr. Hari Prasad Upadhyay, Head of the Mathematics Education and Computer Science subject Committee. I also thank to the Department of Mathematics Education for allowing me to carry out this research. My hearty thanks go to Central Library and Curriculum Resource Center (CRC) for their kind help providing essential materials.

I would like to extend my heartfelt gratitude to my parents for their economic support and inspiration. I am beholden to all my friends especially Mr. Shiva Kumar Sharma who have directly co-operated me in bringing this thesis work to completion. I am thankful to Mr. Keshav Raj Pandeya and Tara Nath Paneru for their assistance.

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Madhusudan Gautam

## Abstract

The major focus of this study was to explore collaborative teaching contribute to learning mathematics and to find out the challenges in applying collaborative leaning method. I have followed qualitative research with ethnography approach. The study site is creative Academy school Kirtipur and Green Field Higher Secondary School Kalanki, Bafal. The participants of my study were two secondary level mathematics teachers. The first participant teacher was form creative academy school, Kirtipur. And the second participant teacher was for Green filed Higher Secondary School, Kalanki Bafal. Similarly, the participants of my study were twelve secondary level mathematics students from both creative Academy School and Green Field Higher Secondary School.

To maintain quality standard, I used cross match, triangulation, member checking, prolonged stayed in the field. For quality standard, I followed credibility, transferability, dependability and conformability. The data were collected by the means of interview guidelines with teachers and students and classroom observation. I have found that positive interdependency, individual accountabilities, student's encouragement in motivation, students centered method in collaborative classroom. In this study I found that the challenges faced were mathematics Anxiety. Traditional learning teaching activities, gender diversity, difficult in class control, individual difference among students in collaborative classroom. Similarly, I also study its relevance in Nepalese context and educational implication.

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## Abbreviations

CA	:	Collaborative Learning
IA	:	Individual Accountability
PI	:	Positive Interdependence