EFFECTIVENESS OF PROBLEM SOLVING METHOD IN TEACHING MATHEMATICS AT GRADE IX

A

THESIS

BY

BINOD KUMAR BANIYA

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Thesis

By

Binod Kumar Baniya

Entitled

Effectiveness of Problem Solving Method in Teaching Mathematics at Grade IX has been approved in partial fulfillment of requirements for the degree of Master of Education

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LETTER OF CERTIFICATE

This is to certify that **Mr. Binod Kumar Baniya**, a student of academic year 2064/066 with campus Roll No. 848, Thesis number 612, Exam Roll No. 281069 and T.U. Regd. No. 9-1-57-22-2001 has completed his thesis under my supervision for the period prescribed by the rules and regulation of T.U. Nepal. The thesis entitle, **Effectiveness of Problem Solving Method in Teaching Mathematics at Grade IX** has been prepared based on the results of his investigation conducted during the period of 2015 the department of mathematics education hereby, recommend and forward that his thesis be submitted for the evaluation as the partial requirements of award for the master's Degree of Education.

……. …….

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ABSTRACT

This is an experimental research related to find the effectiveness of problem solving method in teaching mathematics at grade IX.

The objectives of this study were as

- To find out the effectiveness of problems solving method in teaching geometry at grade IX.
- To compare the achievement score of the student thought by problem solving method and traditional method.

For the data collection, the researcher developed two achievement test paper, pretest and posttest. In order to finalize the tools, pilot studies of both test paper I an II were conducted on schools. Shree Prem Devi Secondary School, Paduka 3, Dailekh, The pre-test consisted of thirty multiple choice items on the unit geometry at grade IX. The post-test consisted of thirty multiple choice items on the unit of geometry at grade IX.

A pretest-posttest non-equivalent-groups design was adopted for the purpose of this study. The population of this study consisted only to study. Mathematics of grade IX students of Dailakh district. Grade Nine students of Shree Prem Devi Secondary School, Dhamigaun, Paduka, Dailekh was chosen for sampling purpose two non equivalent groups were chosen for sampling purpose. Two non-equivalent groups were defined on the basis of the pretest result. Experimental a control groups were assigned by tossing a coin. Both the experimental and control groups were taught by the research himself on selected unit ‘geometry” at their usual period.

The duration of instruction was 3 weeks. At the end of the instructional period, both groups took a posttest on the same topic. The mean and standard deviation of the scores were calculated. Then the difference in the mean achievement of both groups were tested by applying t-test statistical method. The average difference was significant at 0.1 level of confidence. Hence, the researcher concluded that the achievement of students taught by problem solving method of teaching improved significantly better than the achievement of students taught by the traditional method.

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LIST OF ABBREVIATIONS

SPDSS	:	Shree Prem Devi Lower Secondary School
NESP	:	National Education System Plan
PRIME	:	Programm for the Revision and Improvement in Mathematics Education
E-Group	:	Experimental Group
C- Group	:	Control Group
NEC	:	National Education Commission
DF	:	Degree of Freedom