

**GIRLS ENGAGEMENT AND THEIR ACHIEVEMENT IN SCIENCE IN
SINDHUPALCHOK DISTRICT: A CORRELATION STUDY**

Submitted By

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Environment Education
(Specialization in Chemistry Education)**

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Recommendation for Acceptance

This is to certify that **Sheela Aryal** has completed his M.Ed. thesis entitled "**Girls Engagement and their Achievement in Science in Sindupalchok District: A Correlation Study**" under my supervision during the period prescribed by the rules and regulation of Tribhuvan University, Kirtipur, Kathmandu, Nepal. I recommend and forward her thesis to Department of Chemistry Education to organize final viva-voce.

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Letter of Approval

This thesis entitled "**Girls Engagement and their Achievement in Science in Sindupalchok District: A Correlation Study**" submitted by Sheela Aryal in partial fulfillment of the requirements for the Master's Degree in Chemistry Education has been approved.

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Dedication

I dedicate this thesis to my respected parents Mr. Prem Prasad Aryal and Mrs. Kamala Aryal and all well-wishers.

Declaration

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

.....

Sheela Aryal

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Letter of Certificate

This is to certify that Sheela Aryal students of academic year 2071/ 2072 with Exam Roll No. 280756 and T.U. Registration No. 9-1-29-1043-2004 has complete this thesis under the period prescribed by the rules and regulation of Tribhuvan University, Nepal. This thesis entitled "**Girls Engagement and their Achievement in Science in Sindupalchok District: A Correlation Study**" embodies the result of her investigation. It is record of independent research work carried out by researcher which has been previously submitted for the award of any degree and other similar purpose. I recommend and forward that this thesis submitted for partial requirements to award the degree of Master's of Chemistry Education.

Date:

.....

Narayan Prasad Timilsina

Head of the Department of Science and Environment Education

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Sheela Aryal

Abstract

This study entitled “Girls’ Engagement and their Achievement in Science in Sindupalchok District: A Correlation Study” was carried out with the aim of find out the correlation between girls engagement and their achievement and factors affecting of the girls in school science of the grade nine students of Sindhupalchok district. To carry out the study, both quantitative and qualitative or mixed research design has been adopted. The population of the study was all public secondary school from Sindhupalchok district. Purposive sampling technique was used to select the schools from the defined population. The sample population consisted of 40 students, 20 students from each school with equal number of girls and boys. The researcher used one set of achievement test item, two sets of interview guidelines and questionnaires which was one for teacher and another for students and two sets of class observation form based on Likert’s Scale which was one for teachers and another for students as tools for collecting primary data. Then used Pearson’s formula to calculate the coefficient of correlation (r) between meaningful engagement and achievement of girl students.

The findings of the study showed that the engagement of girl students was analysed in class attendance, interaction with teachers and students and extra activities of girl students. The achievement of boy students was slightly better than achievement of girl students and the correlation between girls’ engagement and their achievement in science was positive. The students have done better in engagement than their achievement. The main factor of girls’ engagement in school science was menstruation period of girls which affected the participation of girls in classroom directly. The findings of the study also found that background of the family, environment of the school, management system of the school, curiosity and interest of the

students was other factors of girls' engagement which directly and indirectly affected the achievement of girls in school science.

The finding of the study can be used by science teacher, curriculum designer, administrative depart of the school for designing activities and teaching strategies that could address the engagement and achievement of girl students'. It will provide some suggestions to the educational practitioners, teachers, researchers, stakeholder related to school and female rights to adopt new strategies to increase girls' engagement and achievement in school science.

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List of Abbreviations

AM	Anti Meridiem
BS	Bikram Sambat
CD	Class Work
CERID	Research Centre for Educational Innovation and Development
DEO	District Education Office
DOE	Department of Education
GON	Government of Nepal
HW	Home Work
HMG	His Majesty's Government
MOE	Ministry of Education
NCED	National Centre for Educational Development
PLA	Participatory Learning Approach
PM	Post Meridiem
SEE	School Education Examination
SLC	School Leaving Certificate
SMC	School Management Committee
TU	Tribhuvan University
UNESCO	United Nations Educational Scientific and Cultural Organization
VDC	Village Development Committee
WEP	Women's Education Program
WES	Women Education Section