

DE LA SALLE UNIVERSITY

ABSTRACT

TITLE: Factors Associated with the Academic Performance of the Third Year Students of QCSHS in Learning the SEDP Mathematics III Content

The Problem

This study was conducted to determine the degree of correlation between these different factors: attitude, mental ability, classroom environments, class attendance, socio-economic status, educational attainment of parents, time allotted in studying SEDP Mathematics III, final grade in SEDP Mathematics II, final grade in Geometry, sex, and study habits, with the academic performance of students in SEDP Mathematics III.

Methodology

A. Research Design

The co-relational and descriptive methods were used in this study.

B. Respondents

The respondents of this study consisted of 192 junior students of Quezon City Science High School, school year 1991-1992. There were 96 males and 96

DE LA SALLE UNIVERSITY

females.

Findings of the Study

From the investigation made, the following findings were drawn:

1. Among the predictor variables, Geometry grade, SEDP Mathematics II grade, attitude towards Mathematics and attendance were significant predictors of the academic performance in SEDP Mathematics III.
2. Geometry grade and PreGrade I correlated significantly with each other, next was involvement and task orientation and educational attainment of mother with educational attainment of father.
3. The relative contribution of each factor to the academic performance in SEDP Mathematics III were: Geometry grade (35%), attendance (25%), PreGrade - SEDP Mathematics II grade (24%), attitude towards Mathematics (21%), intelligence quotient (11%), teacher support (11%), educational attainment of the father (7%), order and organization (3%), socio-economic status (-13%), affiliation (-12%), involvement (-10%), sex (-9%), educational attainment of the mother (-9%), task orientation (-4%), study habits (-3%), rule clarity (-3%), time allotted in studying SEDP Mathematics III (-.4%).

DE LA SALLE UNIVERSITY

4. The best sole predictor of the academic performance in SEDP Mathematics III was the Geometry grade since SEDP Mathematics III is a combination of Algebra, Geometry and Statistics.

5. The best regression equation for predicting the academic performance in SEDP Mathematics III was:

$$Y = 28.05 + .31X_2 + .18X_{13} + .17X_1 + .03X_4 - .52X_{14} - .17X_6 - .05X_{17}$$

where:

X_1 = PreGrade (SEDP Mathematics II grade)

X_2 = Geometry grade

X_4 = Attitude towards Mathematics

X_6 = Affiliation

X_{13} = Attendance

X_{14} = Sex

X_{17} = Socio-economic status

Conclusions of the Study

From the findings enumerated above, the following conclusions were drawn:

1. Geometry grade, SEDP Mathematics II grade, attitude towards Mathematics and attendance were significant predictors of the academic performance in SEDP Mathematics III.

2. Geometry grade and SEDP Mathematics II grade

DE LA SALLE UNIVERSITY

correlated highly with each other. Involvement correlated fairly high with task orientation, and so did the educational attainment of the father with the educational attainment of mother. This indicated that couples usually have the same educational qualifications.

3. Academic performance in Mathematics can best be predicted from previous grades in Mathematics.

