



De La Salle University-Dasmariñas

**IQ Score and Demographic Profile as Significant Predictors of
Academic Difficulty of Freshman High School Students of
Dasmariñas National High School – West, Dasmariñas Cavite**

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TABLE OF CONTENTS

	Page
TITLE PAGE	
TABLE OF CONTENTS	
APPROVAL SHEET	i
CERTIFICATE OF ADVISER	ii
CERTIFICATE OF ORAL DEFENSE	iii
CERTIFICATE OF EDITOR	iv
ACKNOWLEDGMENT	v
ABSTRACT	viii
CHAPTER I	
PROBLEM AND ITS BACKGROUND	
Introduction	1
Conceptual Framework	3
Statement of the Problem	5
Statement of Hypothesis	6
Significance of the Study	6
Scope and Limitation	8
Definition of Terms	9
CHAPTER II	
REVIEW OF RELATED LITERATURE AND STUDIES	12



CHAPTER III

METHODOLOGY

Research Design	21
Participants of the Study	21
Research Instrument	22
Research Procedure	24
Data Analysis	25
Statistical Treatment	26

CHAPTER IV

PRESENTATION OF RESULTS, ANALYSIS AND INTERPRETATIONS

27

CHAPTER V

SUMMARY, CONCLUSION AND RECOMMENDATIONS

Summary	41
Conclusions	42
Recommendations	43

BIBLIOGRAPHY

45

APPENDICES

A. Permission Letter	50
B. Validation Letter	51
C. Demographic Profile and Academic Difficulty Checklist	52
D. Computation of IQ Score in Predicting Academic Difficulty	54



E. Computation of Age in Predicting Academic Difficulty	57
F. Computation of Gender in Predicting Academic Difficulty	60
G. About the Researchers	61





ABSTRACT

Name of the Institution : De La Salle University-Dasmariñas

Address : Dasmariñas Cavite

Title : IQ Score and Demographic Profile as Significant Predictors of Academic Difficulty of Freshman High School Students of Dasmariñas National High School – West, Dasmariñas Cavite

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Objectives of the Study

A. General

1. To determine whether IQ score and demographic profile are significant predictors of the academic difficulty of freshman high school students in Dasmariñas National High School – West, Dasmariñas Cavite.



B. Specific

2. To identify the demographic profile of the respondents in terms of age and gender.
3. To identify the IQ of the participants.
4. To identify the academic difficulty of the participants.

Scope and Limitation

This study attempted to investigate if IQ score and demographic profile of the participants are significant factors of their difficulty in terms of academics.

This study also aimed to help the participants be aware of their academic difficulty.

According to Bureau of Secondary Education (2009), there are seventy (70) public schools located in Cavite. And out of these, the researchers decided to conduct the study at Dasmariñas National High School-West, which is located in Brgy. Sta. Maria, Dasmariñas, Cavite. The sampling technique used in this study is random sampling. There are 8 sections for first year students at Dasmariñas National High School - West and there are 93 students per section. There are 744 freshman students and the researchers got the 10% of the whole population randomly. The researchers used 76 participants in the study.

This study limited its coverage on the freshman high school students only. They were chosen regardless of their gender and age. Its main purpose was to identify the academic difficulties which are usually encountered by the chosen research participants to help them manage these difficulties, as well



as to enhance the potentials in their excellencies. This study limited its scope in terms of academic difficulty to the major subjects such as Mathematics, English, and Science in school where students encounter difficulties. The topics covered for this study are Algebra I, Basic English, and Earth and Physical Sciences.

The IQ of the participants will be identified through Raven Standard Progressive Matrices and by percentile basis.

Research Procedure

Phase I

1. The researchers looked for the information, other related studies, articles and journals that are associated with the academic difficulty among freshman high school students.
2. The participant gathered these by means of random sampling. There are eight (8) sections in the freshman level and from there the researchers randomly got seventy - six (76) participants.
3. There were a total of seventy - six (76) freshman high school students who served as the participants for this study.

Phase II

1. The researchers made a thorough study about the academic difficulty of the participants with the help of the instruments used to obtain the data needed for this study



2. The instruments utilized are the Demographic Profile and Academic Difficulty Checklist (DPADC) and Standard Progressive Matrices (SPM). The first test was used to determine the demographic data and academic difficulty of the participants while the second test was used to identify the IQ score of the participants.
3. DPADC was given to the participants for them to answer in 15-20 minutes. SPM was also given to them to answer in 20 minutes.
4. The responses of the participants, together with the result of the tests, were presented through the use of tables, after which, the necessary statistical treatments were applied and from there, analysis, interpretations and conclusions were derived.



Conclusions

The following insights were drawn from the findings:

1. The researchers conclude that female freshman high school students outnumber male students in terms of population in Dasmariñas National High School-West. They also conclude that the common age of a freshman high school student is between 12 to 13 years old.
2. The researchers conclude that most of the freshman students in Dasmariñas National High School-West experience academic difficulty.
3. They also determine that the most difficult among the three subjects is Mathematics followed by English then Science.
4. They conclude that the higher their IQ scores, the lesser academic difficulty they would experience and vice versa and female freshman high school students have less academic difficulty than male freshman high school students.

Recommendations

On the basis of the foregoing findings and conclusions, the following recommendations are proposed:

For Students. The researchers recommend for students to practice and improve their study habits. They should engage themselves in activities like peer tutorial or peer study group to enhance their intellectual abilities.



For Teachers. The researchers recommend for teachers to give more attention to those students who struggle or experience more difficulty academically. They also suggest for teachers to create a lively and interesting lesson by forming interactive activities and not just lecture discussions. Also, refrain from using technical terms that would only confuse their students. If it's necessary to do so, briefly explain the technical terms.

For Administration. The researchers recommends to the administration to provide programs like peer tutorial which refers to a tutoring that is done between two people who are close in age and at a similar academic level (Webster, 2012). The researchers also recommend making the time duration of subject well distributed. For example, instead of meeting the students' everyday for science, just meet them once or twice a week. By that, the teachers will have a chance to make learning activities that will make the students more interested to learn and to avoid mental fatigue and cramming.

Future Researchers. This paper would give way to broader researches of this topic. Consider doing research in a larger population and on a different setting. The researchers also recommend to make a research that circles only in one specific profiling like females with a specific range of age and to make a comparative analysis between a private school and a public school. Also, secure a place where it's free from extraneous variables so the participants would be able to focus on the tests that they will take.