SCIENCE RELATED ATTITUDES, TEACHUNG STYLES, AMO PERFORMANCE AMONG GRADE IN STUDEHTS IN PUBLIC SECONDARY SCHOOLS IN CAVITE

CRISTINA P. ROCILLO

SCIENCE- RELATED ATTITUDES, TEACHING STYLES, AND PERFORMANCE AMONG GRADE 10 STUDENTS IN PUBLIC SECONDARY SCHOOLS IN CAVITE

Master's Thesis
Submitted to the Faculty of the
Graduate School and Open Learning College
Cavite State University
Indang Cavite

In partial fulfillment of the requirements for the degree Master of Arts in Education (Major in Educational Management)



Science-related attitudes, teaching styles, and performance among Grade 10 371.102 R58 2019 T-8831

CRISTINA P. ROCILLO December 2019

ABSTRACT

CRISTINA P. ROCILLO, Science-Related Attitudes, Teaching Styles, and Performance Among Grade 10 Students in Public Secondary Schools of Cavite. Graduate Thesis Master of Arts in Education, Cavite State University 2020. Thesis Adviser: Prof. Jason R. Maniacop

This study aimed to determine the science related attitude, teaching styles and performance of 320 grade 10 students in public secondary schools of Cavite gathered through stratified random sampling technique.

The study specifically aimed to determine the; (1.) demographic profile of the participants in terms of sex, parents educational attainment, parents occupation, and academic performance of grade 10 in Science; (2.) science- related attitude in terms of the participants in terms of . social implications of science, normality of scientists, attitude of scientific inquiry, adoption of scientific attitudes, enjoyment of science lessons, leisure interest in science and career interest in science; (3.) participants perceived the teaching styles of the teacher in terms of the all-round flexible and adaptable ,the student-centered, sensitive, the official curriculum ,the straight facts no nonsense, the big conference and the one-off teaching style; (4.) level of performance of the participants; (5.) the significant relationship between science- related attitudes and the teaching style of the teachers as perceived by the participants; (6.) significant relationship between science- related attitude and the level performance of the participants; (7.) significant relationship between teaching style of the teachers as perceived by the participants and the level of their performance; and (8.) the predictors of level of performance in science in terms of . social implications of science, normality of scientists, attitude of scientific inquiry, adoption of scientific attitudes, enjoyment of science lessons, leisure interest in science and career interest in science.

The study used descriptive correlational method design to determine the relationship between science- related attitude and teaching styles. Also stratified

random sampling technique was used to identify the participants. The 320 participants used the science related attitude and perceived teaching style questionnaires. While the level of performance of the students was measured using the 1st quarter grade in science ten takes from the response of students.

The descriptive statistics was used to analyze the data. Moreover, mean standard deviation, frequency and percentage distribution were used as well as the spearman rank correlation to determine the significant relationship between science related attitude and teaching styles, significant relationship between science related attitude and between level of performance and significant relationship between teaching style and level of performance. Multiple Regression was used to identify the predictors of level of performance in science in the study.

The result showed the level of Enjoyment in Science and Adoption of Scientific Attitude by the participants were in high level. The perceived teaching style of students was the official curriculum and combination teaching style were also in high level. Moreover, the level of performance of the participants was in Satisfactory Level. Further study revealed that there was a significant relationship between normality of scientist and the level performance of the participants.

Meanwhile, the following science related attitude like Social Implications of science, Attitude of Scientific Inquiry, Adoption of Scientific Attitudes, Enjoyment of Science Lessons, Leisure Interest in Science, Career Interest in Science did not have significant relationship in the level performance of the participants towards science. The relationship test between teaching styles and the level of performance and it was revealed that there is a significant relationship between the straight facts no nonsense teacher and the academic performance.

The Predictors of Level of Performance in Science using the Full Regression revealed that that Enjoyment of Science Lessons was Highly Significant to the Academic Performance. Meanwhile in Stepwise Regression the Predictors of Level

of Performance in Science were the Attitude of Scientific Inquiry, Enjoyment of Science Lessons and Leisure Interest in Science were

LIST OF TABLES

Table		Page
1	School demographic total population and study sample size	34
2	Socio-demographic profile of the participants according to sex	41
3	Mother's highest educational attainment of the participants	42
4	Father's highest educational attainment of the participants	43
5	Father's types of occupation of the participants	43
6	Mother's type of occupation of the participants	44
7	Level of science related attitudes	46
8	Teaching styles perceived by the participants	48
9	Academic performance in science of the participants	49
10	Relationship test between science – related attitudes and the	
	teaching styles	50
11	Relationship test between science – related attitudes and the level	
	performance	. 51
12	Relationship test between teaching styles and the level of	
	performance	. 52
13	Predictors of level performance in Science (Full Regression)	. 53
14	Predictors of level of performance in Science (Stepwise Regression)	55

LIST OF FIGURES

Figure		Page
1	Research Paradigm of the Study	9

LIST OF APPENDICES

Figure		Page
1	Letter of Approval	67
2	Letter of Consent to Student	68
3	Letter of Consent to Parent	69
4	Research Instrument	70
5	Statistical Analysis of Data	78
6	Certificate from the Statistician	97
7	Certificate from the English Critic	98

TABLE OF CONTENTS

	Page		
BIOGRAPHICAL DATA			
ACKNOWLEDGEMENT	iv		
ABSTRACT	vi		
LIST OF TABLES	ix		
LIST OF FIGURES	х		
LIST OF APPENDICES	xi		
INTRODUCTION	1		
Statement of the Problem	4		
Objective of the Study	5		
Hypothesis of the Study	7		
Conceptual Framework of the Study	7		
Significance of the Study	10		
Time and Place of the Study	11		
Scope and Limitation of the Study	11		
Definition of Terms	12		
REVIEW OF RELATED LITERATURE	13		
Socio- Demographic Profile of the Students	13		
Science-Related Attitudes	16		
Teaching Styles	22		
Level of Performance in Science	27		
METHODOLOGY	31		
Research Design	31		
Source of Data	31		
Procedures of the Study	32		

Participants of the Study	33	
Sampling Technique	33	
Research Instrument	35	
Statistical Treatment	37	
RESULT AND DISCUSION		
Demographic Profile of the Participants	41	
SUMMARY, CONCLUSIONS AND RECOMMENDATIONS		
Summary	57	
Conclusions	59	
Recommendations	60	
REFERENCES	62	
APPENDICES	65	

SCIENCE-RELATED ATTITUDES, TEACHING STYLES AND PERFORMANCE AMONG GRADE 10 STUDENTS IN PUBLIC SECONDARY SCHOOLS IN CAVITE

Cristina P. Rocillo

A master's thes	s manuscript :	submitted to the	ne faculty of	the Teacl	her Educa	ation Depar	tment,
College of Edu	cation, Cavite	State Univer	sity, Indang,	Cavite in	n partial	fulfillment	of the
requirements for	the degree Ma	aster of Arts in	Education m	najor in Ed	ucational l	Managemei	nt with
Contribution No_		Prepared und	er supervisio	n of Prof.	Jason R. I	Maniacop.	

INTRODUCTION

Science education is concerned with standards that provide expectations for the development of students' understanding through the entire course of the study. Students develop their interest through questioning to gather ideas that will come up in a new discoveries that would give a better outline in Science and Technology.

Attitudes towards science, scientists, and learning science have always been a concern for science educators. According to Osborne et al, (2003) explain that science thus appears to be "a love hate" subject elicits strong feelings in pupils' and also developing interest in the subject therefore appears to be a real challenge as much as it is challenging research subject. Attitude is very broadly used in discussing issues in science education and is often used in various contexts. These attitude could be a significant factor towards the academic performance in science.

Students' interest about the lesson lies on the style and strategies of the teacher himself; thus, the teacher's way/process of teaching play a big role on students' thorough understanding of the lesson. Once the process done in teaching is suitable and appealing to students' perception the learning and easy understanding of the lesson follows. According to Intan Kurniati (2017) Good teaching will lead to