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An Examination of Secondary School Students' Academic Achievement in Science Course and Achievement Scores in Performance Assignments with Regard to Different Variables: A Boarding School Example

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Article history	<p>The aim of the study is to explore the academic achievement and performance tasks of students studying in a regional primary boarding school in science course with regard to different variables. The study was carried out via survey method and total 96 students, 57 of them boarding students and 39 of them non-boarding students studying in the 5th, 6th, and 7th grades in a regional primary boarding schools, participated in the study. The data of the study was obtained from the academic performance grade point average which the students got from three different exams in Science course and performance grade point average the students got from two different performance assignments (preparing a poster). MANOVA and correlation analysis were used for the statistical analysis of the data which were collected to seek answers for the sub-problems stated within the general framework of the research. The findings revealed that there is not a significant difference between the grade levels and the students' academic achievement scores and performance scores in science course, whereas a significant difference was found between the gender variable and performance scores, which was in favour of females. This result suggests that female students were more successful than male students when compared to performance assignments. Moreover, a meaningful difference was detected in favour of non-boarding students with regard to their academic achievement in science course and their grades in performance assignments. Finally, it was found that there was a moderate positive correlation between the students' academic achievement scores in science course and performance scores in performance assignments.</p>
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Introduction

The traditional education program changed in Turkey in 2005-2006 academic year and since then, an education program based on constructivism has been adopted. In addition to the assessment and evaluation techniques which are oriented for product, alternative assessment and evaluation techniques which assess both the product and the process together have gained importance in the new curriculum which is based on constructivism. Both the product and the process are focused on during the process of evaluation of student performances within the context of alternative assessment and evaluation techniques and thanks to performance assessment, a teacher has an opportunity to identify clearly how students understand knowledge and apply it (Bahar et. al., 2010). One of the performance assessment methods is performance tasks (Secer, 2010). Performance tasks, one of the alternative assessment and evaluation techniques and used in performance assessment (Öztürk, 2010), are activities which consider students' individual differences and give opportunities to the students to apply the skills and knowledge they have to the problem situations they experience (Arı, 2002; MEB, 2004). Moreover, performance tasks are activities which enable students to use their creativity and make them active participants (Uzoğlu et. al., 2013). In the renewed education program, it has been considered appropriate that students are required to prepare performance tasks in each lesson to develop their research and thinking skills and assess their learning process (Yılmaz & Benli, 2011). Talking, singing, drawing a picture, making deductions from a map, preparing a poster, brochure, leaflet about a specific topic, writing a play, and doing an experiment can be given as examples of performance tasks (Kırılmazkaya, Keçeci & Kırbağ Zengin, 2011). In order to apply performance tasks, students must have opportunities to actualize research and assignments in their real lives (Adanalı, 2008). When compared from these aspects, it is clear that students differ from each other regarding the opportunities they have. This difference is specifically experienced in regional boarding schools. Regional primary boarding schools are the primary schools which are established for the purpose of meeting the basic educational needs of the children who have reached the age of compulsory education but who live in the rural areas which have less and scattered population such as village, fields, or a nomad camping site and do not have easy access to education close to their homes. Besides receiving education in these schools, students are provided with opportunities such as accommodation, health care, school expenses, and food. These schools were first opened as regional village schools in villages in 1942 and they turned into regional primary boarding schools in time (MEB, 2003). In 2012-2013 academic year, 5th, 6th, 7th, and 8th grade students were admitted to Regional Primary Boarding Schools. 1st, 2nd, 3rd, and 4th grade students who used to study in these schools were then provided transportation to go to schools close to their homes. With this change, Regional Primary Boarding Schools were called Regional Secondary Boarding Schools (Official Gazette, 2012)

Regional Primary Boarding Schools (YİBOs) fulfil very important functions in the regions where they are located. Specifically, they undertake considerably important missions regarding students' personal development, keeping up with the changing world, and providing social and cultural development of their regions as well as meeting their own cultures and the era (Şenol & Yıldız, 2009). Although boarding schools try to provide education opportunities for the children living in small settlements and in the regions with scattered population, it is considered that because children live far way from their families and experience adaptation problems, these will have an effect on their academic achievement and attitudes towards school.



The study which is carried out within this context aims at examining and detecting the relationship between the academic achievement and performance assignment achievement scores of students studying in a regional secondary boarding school in science course with regard to different variables. The study sought answers to the following questions:

- (1) Is there a relationship between the students' academic achievement in science course and performance assignment achievement scores which they take within the context of this course?
- (2) Is there a relationship between the students' genders, grade levels and being a boarding or non-boarding student and their academic achievement in science course and performance assignment achievement scores which they take within the context of this course?

Method

Research Method

In the research, survey method, one of the quantitative research methods, was used. This method is conducted to shed light on the event, to make evaluations in line with standards, and to reveal the possible relationship between the events. The main purpose of such research is to identify and explain the case which is examined in detail (Çepni, 2012). This method was chosen in the study because the relationship between the students' academic achievement scores which they got from the science course and their academic achievement scores they got from the performance assignment in the same course was explored regarding different variables.

The population of the Study

The research was carried out in a regional secondary boarding school located in Giresun in the first term of 2012-2013 academic year. Total 96 students, 57 boarding and 39 non-boarding, participated in the study.

Data Collection Tool

The research data was obtained from the academic performance grade point average which the students got from the three different exams in science course and performance grade point average the students got from two different performance assignments (preparing a poster). Students' academic achievement scores and performance assignment scores were assessed out of 100. Students' performance tasks were evaluated by two different researchers working independently of each other via analytical rubric. Analytical rubric consists of 5 different sections and each section is 20 point. These sections in the rubric consisted of content, appearance, originality, use of material/ materials' in accordance with each other, and time.

The content of the academic achievement tests and the performance tasks assigned were organized according to the grade levels and they were presented in Table 1.

Table 1. Information about the content of academic achievement tests and performance assignments

Grade	Learning domain	Unit	Subject	1 st Exam	2 nd Exam	3 rd Exam	Performance Assignments (Poster preparation subjects)
5 th GRADE*	Living Beings and Life	Let's solve the puzzle of our body	a) Nutrition and balanced diet b) Digestion and Excretion of food c) Unhealthy agents				a) Nutrient content of food and their functions b) Digestive system organs and their functions organ c) Excretory system organs and their functions c) Kinds of teeth and their functions d) Unhealthy agents and their effects on the body e) Water cycle and the events occurring at that moment f) The difference between temperature and heat g) Contact and non-contact forces
	Matter and Change	Changes in matter and its recognition	a) Water turns into different states b) Heat and temperature c) Heat effects materials d) Distinctive characteristics of matter				
	Physical Events	Force and motion	a) Contact and non-contact forces b) Let's learn the magnets c) Friction force				
6 th GRADE**	Living Beings and Life	Reproduction, growth, and development of living beings	a) The fundamentals of living being: Cell b) Human reproduction, growth, and development c) I am not a child anymore d) Animal reproduction, growth, and development e) Reproduction of flowering plants f) Plant germination, growth, and development				a) The structure of plant and animal cell, their organelles and functions b) Characteristics of egg and sperm cells c) Female and male reproductive organs and their functions d) Physical and psychological changes that occur with the females and females during puberty e) Features of vertebrates and invertebrates such as reproduction and baby animal care f) Reproductive organs of flowering plants, pollination and fertilization g) Seeds of different colours and shapes h) Speed of various vehicles i) Differences between mass and weight j) Features of atom, element, and compounds
	Physical Events	Force and Motion	a) Speed in our life b) Let's discover force c) Forces are in charge d) Weight is a force				
	Matter and Change	Changes in matter and its recognition	a) Particles that make up matter b) Elements and their compounds c) Physical and chemical change d) States of matter and its structure				
7 th GRADE***	Living Beings and Life	Systems in our body	a) Digestive system and health of digestive system b) Excretory system discharges wastes from our body c) Controlling-regulating systems d) Sense organs e) Health of the systems in our body and organ donation				a) Functions of digestive system organs b) Excretory system organs and their functions c) Nervous system organs and their functions d) Regulatory system organs and their functions e) Sense organs and their functions f) Kinds of springs, their features and weight-stretching graphic g) Features of kinetic and potential energy and energy conversion (the process of changing one form of energy to another) h) Types of simple machine and their use
	Physical Events	Force and Motion	a) Let's learn the springs b) Work and force c) Simple machines in our life d) Energy and friction force				
	Physical Events	Electricity in our life	e) Electrification f) Electric current				

* **5th grade exam questions and grading;** 1st Exam (23 point matching questions, 17 point showing on the figure questions , 20 point true-false questions, and 40 point multiple choice questions).
 2nd Exam (20 point classification questions, 10 point open –ended questions, 10 point demonstrating on the figure questions, 20 point true-false questions, and 10 point fill in the blanks questions, and 30 point multiple choice questions); 3rd Exam (100 point multiple choice questions)
 ** **6th grade exam questions and grading;** 1st Exam (30 point classification questions, 30 point showing on the figure questions, 20 point true-false questions, and 20 point multiple choice questions) 2nd Exam (28 point open-ended questions, 20 point true-false questions, 12 point fill in the blanks questions and 40 point multiple choice questions) ; 3rd Exam (100 point multiple choice questions).
 *** **7th grade exam questions and grading;** 1st Exam (20 point matching questions, 30 point showing on the figure questions, 20 point true-false questions, and 30 point multiple choice questions).
 2nd Exam (10 point drawing graph questions , 18 point open-ended questions, 20 point true-false questions, 20 point fill in the gaps questions, and 32 point multiple choice questions; 3rd Exam (100 point multiple choice questions).

Data Analysis

MANOVA and correlation analysis were used to determine the differences between the independent variables within the context of statistical analysis of the data obtained from the sub-problems whose answers were sought within the framework of general purpose of the research. The data related to numerical developments were presented in tables and interpreted. Moreover, whether there was a significant difference between the independent variables or not was tested at the level of $\alpha = .05$.

Findings

The correlation between the academic performance grade point average the students who participated in the study got from the science course exams and their performance assignment grade point average and the gender was analysed and it was presented in Table 2.

Table 2. Correlation analysis related to students’ academic achievement scores in science course and performance assignment achievement scores

Variable	N	\bar{X}	S	r	p
Academic achievement score	96	55.07	10.66	0.471	.000
Performance assignment achievement score	96	79.08	16.21		

When Table 2 is examined, there is a significant difference between the students’ academic achievement scores in science course and performance assignment achievement scores ($r=.471$, $p=.000$, $p<.05$). When the direction and magnitude of this relationship is examined, it is revealed that there is a moderate positive relationship.

Table 3. MANOVA results related to the students’ genders and students’ academic performance grade point average from the exams in science course and performance assignment grade point average

Variable	Gender	N	\bar{X}	S	sd	F	p
Exam Scores	Male	51	55.00	15.39	1-94	.002	.963
	Female	45	55.15	17.27			
	Total	96	55.07	16.21			
Performance Assignment Scores	Male	51	76.07	10.51	1-94	9.393	.003
	Female	45	82.48	9.89			
	Total	96	79.08	10.66			



A significant difference was detected between the students' academic achievement grade point average in science course and performance assignment achievement grade point average and the gender variable [$(\lambda_{Wilks'} \text{ Lambda})=0.885$, $F_{(2-93)}=6.041$, $p=0.003$, $p<.05$]. This finding demonstrates that the points which will be obtained from the linear components composed of students' academic achievement scores in science course and performance assignment achievement scores change depending on the gender. When Table 3 was examined in this context, it was found that academic achievement grade point average of male students in the exams in science course is ($\bar{x}=55.00$) and the females' grade point average is ($\bar{x}=55.15$). It was viewed that there was not a meaningful difference between the students' academic achievement grade point average [$F_{(1-94)}=0.002$, $p>.05$]. Therefore, this result reveals that the academic performances of female and male students are equal. However, the academic performance grade point average of male students in performance assignments which they took within the context of science course was determined to be ($\bar{x}=76.07$) and the academic performance grade point average of female students was ($\bar{x}=82.48$). It was discovered that there was a significant difference between the performance assignment scores of the students which they took within the context of science course in favour of female students [$F_{(1-94)}=-9.393$, $p<.05$]. It can be stated in this context that female students are more successful than male students regarding performance assignments.

The relationship between the students' academic achievement grade point average in the exams in science course and performance assignment grade point average and their being boarding students were examined and presented in Table 4.

Table 4. MANOVA results related to the students' being boarding and students' academic performance grade point average from the exams in science course and performance assignment grade point average

Variable	Being a boarding student	N	\bar{X}	S	sd	F	p
Exam Scores	Boarding student	57	50,21	13,94			
	Non-boarding student	39	62,17	16,83	1-94	14.391	.000
	Total	96	55,07	16,21			
Performance Assignment Scores	Boarding student	57	77,12	10,83			
	Non-boarding student	39	81,94	9,86	1-94	4.934	.029
	Total	96	79,08	10,66			

A significant difference was detected between the students' academic achievement grade point average in science course and performance assignment achievement grade point average and being boarding or non-boarding students [$(\lambda_{Wilks'} \text{ Lambda})=0.864$, $F_{(2-93)}=7.333$, $p=0.001$, $p<.05$]. This finding shows that the points which will be obtained from the linear components composed of students' academic achievement scores in science course and performance assignment achievement scores change depending on receiving education as a boarding student.

When Table 4 was examined within this context, it was found that academic achievement grade point average of boarding students from the exams in science course is ($\bar{x}=50.21$), and non-boarding students' grade point average is determined to be ($\bar{x}=62.17$). It was revealed that there was a significant difference in favour of non-boarding students regarding the differences between



their academic achievement grade point averages [$F_{(1-94)} = 14.391, p < .05$]. This finding demonstrates that the students who continue their education near their families are more successful in science course than the boarding students.

In addition to this, it was found that the performance assignment academic achievement grade point averages of boarding students were ($\bar{x} = 77.12$) whereas the academic achievement grade point averages of non-boarding students were determined to be ($\bar{x} = 81.94$).

Moreover, it was revealed that there was a significant difference in favour of non-boarding students with regard to the differences in performance assignment scores which they took within the context of science course [$F_{(1-94)} = 4.934, p < .05$]. It can be stated within this context that the students who continue their education near their families are more successful in performance assignments.

The relationship between the students' academic achievement grade point averages from the exams in science course and performance assignment grade point averages and their grade levels were examined and presented in Table 5.

Table 5. MANOVA results related to the students' grade levels and students' academic performance grade point averages from the exams in science course and performance assignment grade point averages

Variable	Grade Level	N	\bar{X}	S	sd	F	p
Exam Scores	5 th Grade	24	52.66	17.55	2-93	0.417	.660
	6 th Grade	34	55.11	16.27			
	7 th Grade	38	56.55	15.53			
	Total	96	55.07	16.21			
Performance Assignment Scores	5 th Grade	24	74.83	11.04	2-93	2.713	.072
	6 th Grade	34	79.97	11.07			
	7 th Grade	38	80.97	9.53			
	Total	96	79.08	10.66			

There is not a significant difference between the students' academic achievement grade point averages from the exams in science course and performance assignment grade point averages and their grade levels [$(\lambda_{Wilks' \text{ Lambda}}) = 0.944, F_{(4-184)} = 1.350, p = 0.253, p > .05$]. This finding indicates that the points which will be obtained from the linear components composed of students' academic achievement scores in science course and performance assignment achievement scores do not change depending on grade levels. When Table 5 was examined within this context, it was found that academic achievement grade point averages of 5th grade students from the exams in science course is ($\bar{x} = 52.66$), 6th grade students' grade point average is ($\bar{x} = 55.11$) and the grade point averages of the students studying in Grade 7 is determined to be ($\bar{x} = 56.55$). Although students' academic achievement increases with an increase in their grade levels, it is found that this rise was not at a significant level [$F_{(2-93)} = 0.417, p > .05$]. Moreover, it was determined that the performance assignment achievement grade point averages of the students studying in the 5th grade was ($\bar{x} = 74.83$), it was ($\bar{x} = 79.97$) for the students' studying in the 6th grade, and the grade point averages



were ($\bar{x} = 80.97$) for the 7th grade students. Although students' performance assignment scores increase with an increase in their grade levels, it is revealed that this increase was not at a significant level [$F_{(2-93)} = 2.713, p > .05$].

Results and Discussion

As a result of the study, a significant relationship was identified between the students' academic achievement scores in science course and performance assignment achievement scores (Table 2). When the direction and magnitude of this relationship was examined, a positive relationship at a moderate level was determined. When relevant literature is reviewed, it is revealed that there is a positive relationship between the students' academic achievement and their state of doing the assignments and their attitudes towards performance assignments (Çelik & Aktürk, 2009, Gedik & Orhan, 2013; Gür, 2002; Kumandaş & Kutlu, 2010; Uzoğlu et. al., 2013). It can be stated that the findings of this study which was conducted within this context show parallelism with the literature. Another result in the study is the relationship between the gender variable and academic achievement and performance assignment achievement. For that purpose, it was discovered that there was not a significant difference between the students' academic achievement in science course and gender; however, it was found that there was a significant difference in favour of female students regarding their scores in performance assignment which they took within the context of science course (Table 3). This finding reveals that regarding performance tasks, female students are more successful than male students. It was stated in the literature that unlike male students, female students have positive attitudes towards the assignments given at a significant level and they also exhibited more positive attitudes than males. The reason for this is that female students are more disciplined, dutiful, submissive and organized (Hong, 1999, Yeşilyurt, 2006) and it might also result from the fact that female students' physical/kinaesthetic and interpersonal/social intelligence points are higher than male students (Pekdemir & Akyol, 2011). Another study conducted in boarding schools revealed that female students exhibited more positive attitudes towards school than male students and they were more compatible than boys (Buckner, Bassuk & Weinreb, 2001; Coşkun, 2004; Çetinkaya, 2013; Lucia et al., 2000; Wentzel, 1997). The reason for this is that there are still families living in the villages and who are still against sending their daughters to school and female students consider boarding schools as the only opportunity and chance to receive education (Çetinkaya ve Gelişli, 2014). It can be considered that the female students' being more successful in performance assignments than males may have resulted from these facts. The findings of the study revealed that the higher the grade levels got, the higher academic achievement scores in science course and performance assignment scores students had ; however, it was determined that the difference was not at a significant level (Table 5). This result demonstrates that the understanding level of science course which is described as abstract and which students have mostly difficulty in understanding has increased due to the grade levels and thus increasing age. The other studies conducted reveal that as the grade levels increase, there is an increase in students' performance of doing homework and students do their homework more consciously as they progress through the grade levels (Cooper, Robinson & Patall, 2006; Gedik & Orhan, 2013).

The most important finding in the research is the relationship between the academic achievement in science course and performance assignment achievement scores of the boarding students and



the students who receive education near their families. Within this framework, it was discovered that there was a significant difference in favour of non-boarding students regarding both their academic achievement in science course and performance assignment achievement scores (Table 4). In other words, it can be stated that the students who continue their education near their families are more successful both in science course and performance assignments which they took within the context of science course. When literature is examined, it is found that unlike other students, boarding students have more difficulty in adapting to school due to their being far away from their families and lack of interest from their families (Ak & Sayıl, 2006; Barth et. al., 2004; Kazu & Aşkın, 2011; Küçük & Arıkan, 2005), their level of readiness is low and this results in academic failure (İnal, 2009). It was found in the other studies conducted that there was a very close parallelism between the students' academic achievement and families' level of interest in a child (Guest & Biasini, 2001; Halıcı, 2005; Pettit, Bates & Dodge, 1997; Wentzell, 1997) and it was found that the performance of students studying in boarding schools were low when compared to other students (Arı, 2002; Udum, 2012).

In the light of this study and the other studies in literature, giving performance assignments, homework, research projects on any science topics which students like can make contributions to increase students' science achievement. Moreover, teachers can provide more academic support to male students who take performance tasks, so contributions are made to increase their performance task achievement. In addition to this, students in boarding schools do not feel themselves valuable and important and thus they are not expected to adapt to this environment and feel happy and peaceful. However, if students feel themselves valuable, their self-esteem will increase and they will feel happy and peaceful in the environment where they exist and this will make contributions to their academic and social development.

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