The Teacher’S Role in the Formation of the Attitude and Performance of Students in the Subject of Geography

Likouri Anna-Aikaterini1,* & Klonari Aikaterini1

1Dept. of Geography, University of the Aegean, University Hill, Mytilene, 81100, Lesvos, Greece

*Corresponding author: Dept. of Geography, University of the Aegean, University Hill, Mytilene, 81100, Lesvos, Greece. Tel: 30-697-764-2939. E-mail: katial25@yahoo.gr

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Abstract

The purpose of this study was to investigate the attitude of teachers and students towards the subject of geography, and whether it affects the students’ performance. The sample comprised 600 6th-grade primary school students from various areas of Greece, and their 33 teachers. The following findings were made: a) the largest part of the teachers and students shows a medium or poor attitude towards the subject of geography; b) teachers’ reeducation did not seem to improve either the attitude of teachers or the attitude and performance of their students; c) prior working experience of teachers did not appear to affect attitude, but it does affect performance of their students in geography; d) the teaching method (traditional or with the use of technologies) did not appear to differentiate the students’ attitude towards geography.

Keywords: geography education, teachers, attitude, school performance, Greece
1. Introduction

The teacher’s role has always been particularly important for the development of students’ achievement and performance (Soric, 2011; Ulug, Ozden, & Eryilmaz, 2011). However, the role of teachers has fundamentally changed. International trends in education show a shift from the traditional “teacher centred” approach to a “student centred” approach, with the implementation, in several courses, of new technologies. Students aren't consumers of facts any more, but they are active creators of knowledge. Therefore, teachers ought to change the traditional teaching methods, and apply more innovative, participatory, and active practices in the classroom (UNESCO, 2004; Luciano, 2014). They grasp that their most important role is to get to know each student as an individual in order to comprehend his or her unique needs, learning style, social and cultural background, interests, and abilities. Teachers’ current role is helping students “learn how to learn”, by developing their abilities to think critically, solve problems, make informed judgments, and create their knowledge. In modern classrooms, teachers are no longer lecturers, they can be thought of as facilitators in the learning process, supporters, advisors and their main task is to set goals and organise the learning process accordingly (Flouris, 2000; Zhuang, 2010).

It is well known that the positive and negative behaviors exhibited by teachers determine to a great extent their effectiveness in the classroom and, ultimately, the impact they have on student achievement (Matsagouras, 2000; Stronge, 2007).

Moreover, Ames & Archer (1988) showed that students' perceptions of classroom climate were related to specific motivational variables that have significant implications for the development of self-regulated learning as well as a long-term involvement and interest in learning. I.e. students who perceived an emphasis on learning goals in the classroom reported using more effective strategies, preferred challenging tasks, had a more positive attitude toward the class, and had a stronger belief that success follows from one's effort. Students who perceived performance goals as salient tended to focus on their ability, evaluating their ability negatively and attributing failure to lack of ability (Ames & Archer, 1988, p.1).

There are some reasons for students’ poor performance that are specific or related to school. Several studies focus on teaching models or approaches that have effects on curricula designing and educational environments, from the perspective of encouraging students’ learning (Burden & Byrd, 1994; Coffin, 1994; Joyce & Weil, 1996; UNESCO, 2004; Moler, 2008; Luciano, 2014). Others examine the teachers’ skills in applying creative and personalized teaching methods through art, in which case effective teachers create enthusiasm, and make the learning objectives clear (Harris, 1998). But there are many researches that reported that teachers matter more to student achievement than any other aspect of schooling (Rosenshine, 1983; Brophy & Good, 1986; Rose, 1989; Chalkia, 1999; Klonari & Koutsopoulos, 2005; Soric, 2011; Ulug, Ozden, Eryilmaz 2011; Schneider, Coutts, and Gruman, 2012). They play a crucial role in educational attainment because the teacher is ultimately responsible for translating educational policy into action and principles based on practice during interaction with the students (Adeyemi, 2010; Alderman, 2008; Heck, 2009; Prassas, 2013). Wright, Horn and Sanders (1997) concluded that the most important factor
influencing student learning is the teacher.

More specifically, researchers report that the deficiency of students in geographic knowledge, as well as their negative attitudes towards geography related to teachers’ negative behaviour, traditional way of teaching and insufficient content knowledge of the subject (Lamprinos, 1998; Katsikis, 2001; Klonari, 2002; Klonari & Koutsopoulos, 2005). Taking into consideration the fact that many researchers admit that children’s learning is improving as their interest increases (Shaughnessy, Haladyna, 1985; Sack, Petersen, 1998; Jacobson, 2000). As well as that the development of positive attitudes towards a subject early in students’ lives often affect what a person chooses to learn more about it later in his life (Carswell, 1970, Sack, Petersen, 1998, Whitlock, 2006), then it is certain that further research on the topic will be required, for the purpose of detecting the factors that affect the “misfortune” of geographic education in Greece, and taking appropriate steps to address these effectively.

Previous researches concerning the status of Geography in Greek educational system show that Geography, from its inclusion in school curricula until this day, has been classified among the minor subjects, the ones called “secondary” by teachers and students. It has been treated as a “supplement” of the hourly schedule, and despite the efforts made during the last few years for the renewal thereof, it is quite far from being labeled as a significant subject in Greek educational system. Geography position in the Greek educational system is continuously degrading and the future seems to be very cloudy and uncertain. Such a view is supported, in particular by reducing its prestige among others science subjects, which leads to the continuous reduction of weekly hours of geography teaching in compulsory education and the replacement of subject content with other science ones. (Rentzos, 1984; Katsikis, 2001; Klonari, 2004; Rellou & Lamprinos, 2004; Klonari, 2012).

Also, other researchers have stressed that despite the fact that in the past remarkable efforts had been made for the improvement and modernization of geographical knowledge at schools (Katsiapi, Klonari, 2000; Pramas., Koumaras., 2004), through new geography curricula (Hellenic Government Gazette: 241/1996, 335/2000, 1375/2001, 364/2003), new geography textbooks, creation of new educational material (Anagnostopoulos et al., 2001) educational software and finally organization of short teacher training seminars, still there has been little, if any, improvement of the image and status of the subject, and teaching methods implemented in the classroom practices (Klonari, Karanikas, 2004).

A previous research conducted by Klonari (2004), in which the opinions and attitudes of Primary and Secondary Education teachers with regard to the subject of Geography at the Greek school are investigated, showed the following results: a) teachers accept that Geography is a useful subject, and it must be taught at school and b) primary education teachers by 48% and secondary education by an even greater rate (65%) stated that they do not like the subject, they do not want to teach it, and they would prefer to teach other subjects. As an excuse for their negative attitude towards the subject both Primary and Secondary Education teachers reported: a) the inadequacy of knowledge, as they were not taught at all or were inadequately taught this subject at the University or the Academies, b) the bad experience from being taught such subject as students (learning by heart etc.), c) the lack of
suitable educational material so that the lesson will become attractive, and d) lack of time for
the preparation of the lesson in accordance with the requirements of the “new Curricula”
(Klonari, 2004). But, a more recent research (Paraskevas, et al. 2010) showed that most of the
teachers pursued new teaching approaches that would support the educational needs in
teaching geography.

Recently, innovative approaches to teaching geography adopted in the new geography
curriculum, and new digital educational material implemented in student activities, as part of
the new school: the school of the 21st century (Klonari, et al., 2014).

In this framework, the purpose of our research is to investigate whether the image of the
subject of geography has improved both as regards teachers and students, and whether and
how the teacher’s attitude influences the attitude and the students’ performance in the subject
of geography.

2. Method

2.1 Research Sample

The research used 600 6th-grade students from all over Greece. In total, the 600 students
were 11-13 years old (Mean Value=11.75 Standard Deviation=0.46), and came from 22
different schools, divided into 33 different classes. Out of these classes, 18 (54.6%) belonged
to pilot schools, which were required to implement the new Geography Curriculum (use of
technologies and innovative approaches, without a specific textbook), while 15 (45.4%) followed
the older Cross-thematic Geography Curriculum and the approved school
geography textbooks. Out of the total of the participating students, 301 were boys (50.2%)
and 299 (49.8%) were girls. The 33 teachers for each class also participated in the research.
Out of them 10 were men (30.3%) and 23 were women (69.7%), aged from 27 to 57
(M.V=40.8 S.D =9.31). Only 7 teachers (21.2%) were taught the subject of geography at
university, and 13 teachers (39.4%) had participated in the inservice teachers’ training
seminars, workshops, regarding the effective implementation of the new Geography
Curriculum in their classes.

2.2 Research Tools

We used the following research tools in our research: a) a two-part questionnaire: its 1st part
involved demographic details of the participants, and its 2nd part contained questions relating
to exploring the attitudes of teachers and students towards the subject of geography; b) an
assessment test with geography activities relating to the students’ spatial skills, in accordance
with the model of Gersmehl & Gersmehl (2007), for the purpose of measuring the students’
performance in the specific course, in combination with the grade they had in the term, and
the score they received in the last geography assessment test they had taken in the classroom.
3. Results

To begin with, the students were asked to evaluate by order of significance six core subjects of their grade (Language, Mathematics, Physics, Geography, History, Religion), where 1 means the subject they prefer the most and 6 means the subject they prefer the least. Table 1 presents the frequencies of preferences for all six subjects. It appears that science subjects (Mathematics, Physics) collect the most first preferences (37.9% and 23.6% respectively), while Geography (5.7%) surpasses only Religion (1.8%) in first preferences. Only 26.7% of the sample places Geography among their first preferences, under only Mathematics (60.5%) and Physics (57%), while 46.5% of the sample places Geography higher in preference only than History (36%) and Religion (19.8%). The students’ preferences were checked by the Kendall’s W criterion, in order for the degree of consistency between them to be determined. The criterion value was W=0.22 [χ² (5)=642.025], which is statistically significant, as it is higher than the crucial value for 0.1%. Thus, the null hypothesis (H0) that the students’ preferences in subjects do not differ between one another is rejected in favor of the alternative, with 0.1% error probability. There is systematic differential preference on the part of the students, as regards their preference in subjects (Table 1).

Moreover, preferences towards Geography were grouped into two or three categories of attitudes (1st & 2nd=Very Good, 3rd & 4th=Medium, 5th & 6th=Poor), as displayed in Table 3. Only 1/6 of the total sample of students (18.6%) stated that they have a very good attitude towards the subject. By contrast, 5/6 appear to have a poor or medium attitude (82.4%) (Table 2). As regards the teachers, there was not even one who exhibited a very good attitude towards the subject; on the contrary, 13 teachers (43.3%) reported a poor attitude, and 17 teachers (56.7) reported a medium attitude.

### Table 1. Preferences of Sample Students in Six Subjects of Their Grade

<table>
<thead>
<tr>
<th>Subjects</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f(%)</td>
<td>crf</td>
<td>f(%)</td>
<td>crf</td>
<td>f(%)</td>
<td>crf</td>
</tr>
<tr>
<td>Language</td>
<td>108</td>
<td>18.1</td>
<td>102</td>
<td>17.1</td>
<td>35.2</td>
<td>131</td>
</tr>
<tr>
<td>Mathematics</td>
<td>226</td>
<td>37.9</td>
<td>122</td>
<td>20.4</td>
<td>58.3</td>
<td>86</td>
</tr>
<tr>
<td>Physics</td>
<td>141</td>
<td>23.6</td>
<td>200</td>
<td>33.5</td>
<td>57.1</td>
<td>131</td>
</tr>
<tr>
<td>Geography</td>
<td>34</td>
<td>5.7</td>
<td>76</td>
<td>12.7</td>
<td>18.4</td>
<td>121</td>
</tr>
<tr>
<td>History</td>
<td>76</td>
<td>12.7</td>
<td>64</td>
<td>10.7</td>
<td>23.5</td>
<td>74</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>11</td>
<td>1.8</td>
<td>35</td>
<td>5.9</td>
<td>7.7</td>
<td>60</td>
</tr>
</tbody>
</table>
The teachers selected Mathematics (43.8%) and Language (37.5%) as the subjects they best prefer. Also, no one listed Geography among their first two choices, and no one listed it as their last choice. Thus, all of the choices concerned the 3rd, 4th, and 5th position. By contrast, the subject of Religion collected few preferences, since, as it is indicated in Table 3, 75% of the teachers selected it as their last choice. The criterion value was $W=0.40 \ [\chi^2 (5)=63.25]$, which is statistically significant, as it is higher than the crucial value for 0.1%. Thus, the null hypothesis (H0) that the teachers’ preferences in subjects do not differ between one another is rejected in favor of the alternative, with 0.1% error probability. There is systematic differential preference on the part of the teachers, as regards their preference in subjects.

### Table 3. Preferences of Sample Teachers in Six Subjects of Their Class

<table>
<thead>
<tr>
<th>Subjects</th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>f(%)</td>
<td>crf</td>
<td>f(%)</td>
<td>crf</td>
<td>f(%)</td>
<td>crf</td>
</tr>
<tr>
<td>Language</td>
<td>12 (37.5)</td>
<td>37.5</td>
<td>6 (18.8)</td>
<td>56.3</td>
<td>6 (18.8)</td>
<td>75.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>14 (43.8)</td>
<td>43.8</td>
<td>7 (21.9)</td>
<td>65.6</td>
<td>5 (15.6)</td>
<td>81.3</td>
</tr>
<tr>
<td>Physics</td>
<td>2 (6.3)</td>
<td>6.3</td>
<td>10 (31.3)</td>
<td>37.5</td>
<td>4 (12.5)</td>
<td>50.0</td>
</tr>
<tr>
<td>Geography</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8 (25.0)</td>
<td>25.0</td>
<td>10 (31.3)</td>
</tr>
<tr>
<td>History</td>
<td>3 (9.4)</td>
<td>9.4</td>
<td>9 (28.1)</td>
<td>37.5</td>
<td>8 (25.0)</td>
<td>62.5</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>1 (3.1)</td>
<td>3.1</td>
<td>-</td>
<td>-</td>
<td>1 (3.1)</td>
<td>6.3</td>
</tr>
</tbody>
</table>

### Table 4. Distribution of Frequencies of Students’ Answers to the Question “What you do not like in Geography”

<table>
<thead>
<tr>
<th>1st option</th>
<th>2nd option</th>
</tr>
</thead>
<tbody>
<tr>
<td>f(%)</td>
<td>%</td>
</tr>
<tr>
<td>Vast, condensed subject content</td>
<td>161</td>
</tr>
<tr>
<td>Learning by heart</td>
<td>93</td>
</tr>
<tr>
<td>Too much homework</td>
<td>73</td>
</tr>
<tr>
<td>Poor-written books</td>
<td>31</td>
</tr>
<tr>
<td>Boring teaching</td>
<td>26</td>
</tr>
<tr>
<td>Non-use in classroom educational material</td>
<td>20</td>
</tr>
<tr>
<td>All of the above</td>
<td>19</td>
</tr>
<tr>
<td>Nothing</td>
<td>177</td>
</tr>
<tr>
<td>Total</td>
<td>600</td>
</tr>
</tbody>
</table>
Students were also asked to report what they dislike about geography. Table 4 presents their answers to the question “what they dislike most in Geography”. Four hundred twenty three students (71.5%) gave some answer, while 177 (29.5%) reported “Nothing”. As a first option most of them mentioned vast, condensed subject content, learning by heart, and too much homework required by the subject. As a second option students mentioned too much homework, learning by heart, and absence of use proper educational material in teaching and learning activities. About 64% chose not to give a second answer.

Moreover, most of the teachers reported that they were not taught Geography at University, or that they had not received further training in Geography. Specifically, 26 (78.8%) teachers were not taught Geography in their university studies, while 20 (60.6%) teachers had not received further training. However, many teachers stated that they believe that they teach the subject with adequate to very high proficiency. Three teachers stated that they feel extremely proficient to teach the subject, 12 stated that they feel very proficient, while 16 teachers reported that they feel adequately proficient. Thus, practically only two teachers stated their inadequacy to teach the specific material.

They mainly mentioned that they dislike the geography content (51.5%), and the inadequacy of the educational material, and classroom infrastructure (42.4%). Fewer of them face difficulties with the geography textbook (39.4%) and learning by heart (33.3%). All of them stated that they use the textbook (but for one) and the maps as teaching material. Computers are used by 23 teachers (69.7%), while nine teachers (27.3%) use a specific software, and 12 of them (36.4%) use photocopies. Also, nine teachers (27.3%) used the lesson portfolio, prepared by themselves. Finally, two teachers reported using an interactive environment (interactive whiteboard) for the activities, while another one described teaching in his classroom through the use of sources and small projects.

The lesson is primarily taught in groups in the classroom (23 teachers), while nine teachers mentioned that they apply traditional teaching methods (teacher-centred). A teacher mentioned that he alternates teaching modes (individual/group teaching).

As regards the practical usefulness of the subject of Geography, seven teachers believe that it has some usefulness (21.1%), sixteen (48.5%) teachers report high usefulness, while ten (30.3%) teachers believe that Geography is extremely useful for the person’s life later on.

We also investigated whether teacher’s training affects the attitude and the performance of students in the subject of geography. The existence of additional training of teachers in Geography did not seem to influence their attitude towards this subject [$\Phi(1)=.25$ $p=.18$]. Moreover, having been taught the subject at the University again did not appear to influence their attitude towards this subject [$\Phi(1)=.22$ $p=.21$]. Likewise, the students’ attitude towards Geography did not seem to correlate either with whether teachers had been taught this subject at University $\chi^2(2)=5.48$ $p=.07]$, or whether they had received additional training [$\chi^2(2)=.24$ $p=.89$].

Then, we checked the relationship between teachers’ being taught Geography and being trained in it, on the one hand, and students’ performance, on the other hand. With regard to
being taught Geography at University, it did not seem to differentiate the students’ performance in the Geography test (Mann-WhitneyU=29.620.5 p=.42), or in the examination (Mann-WhitneyU=29.718 p=.38), or in the score for the term (Mann-WhitneyU=30.828 p=.10). By contrast, significant variation appeared in students’ performance in the Geography test they took during this research (Mann-WhitneyU=38.499 p<.05). The students whose teachers had not received prior training in the subject of Geography achieved a better score (T.T.=311.45) than the ones whose teachers stated that they had received training (T.T.=282.89). No differences were observed in scores for the term (Mann-WhitneyU=45.625 p=.11), or in the latest Geography test (Mann-WhitneyU=43.737.5 p=.56).

Another issue that taken into consideration in our research was the teachers’ prior working experience. The teachers’ years of service were checked as a differentiating factor as regards the attitude of teachers and students towards the subject. The check conducted by the criterion \(\chi^2\) did not reveal any statistically significant result. In particular, no statistically significant difference was detected \([\chi^2(4)=2.90, p=.58]\) as to the attitude of teachers towards the subject depending on the years of service they had (6-10, 11-15, 16-20, 21-25, >26). Also, the years of prior working experience of the teachers did not seem to affect the attitude of students towards Geography \([\chi^2(8)=8.86, p=.36]\).

Then, it was investigated whether students’ performance varies as to their overall performance, the Geography test for the term, and the Geography assessment test (related to spatial skills) and the Final Examination test during this research, depending on the years of prior working experience of their teachers (Table 5). With regard to the Geography test, the students whose teachers had small prior working experience (6-0 years) achieved a lower performance, compared with the other students. In particular, they differed from students with teachers with 11-15 years of prior working experience (\(\Delta\bar{R}=-64.05 p<.05\)), from students with teachers with 21-25 years of prior working experience (\(\Delta\bar{R}=-155.51 p<.001\)), and from students with teachers with more than 26 years of prior working experience (\(\Delta\bar{R}=-80.61 p<.05\)). Moreover, students whose teachers had 21-25 years of prior working experience achieved higher performance, compared with the students whose teachers had fewer years of prior working experience, i.e. 11-15 (\(\Delta\bar{R}=-91.46 p<.001\)) and 16-20 (\(\Delta\bar{R}=-125.53 p<.001\)). As regards their score in the Geography assessment test (related to spatial skills), students whose teachers had little prior working experience (6-0 years) had lower performance, compared with students of teachers who reported 11-15 years of prior working experience (\(\Delta\bar{R}=-59.90 p<.05\)), and students of teachers with more than 26 years of prior working experience (\(\Delta\bar{R}=-80.82 p<.05\)). Finally, as regards their score for the term, students whose teachers had little prior working experience (6-0 years) had lower performance, compared with students of teachers who reported 11-15 years of prior working experience (\(\Delta\bar{R}=-52.51 p<.05\)), and students of teachers with more than 26 years of prior working experience (\(\Delta\bar{R}=-67.74 p<.05\)).
Table 5. Check by the Kruskal-Wallis Criterion of the Comparison of the Regular Values of the Students’ Performance as to the Years of Prior Working Experience of Their Teachers

<table>
<thead>
<tr>
<th>School performance</th>
<th>Prior working experience of teachers</th>
<th>Kruskal-Wallis H (B.E.4)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6-10 years (N=194)</td>
<td>11-15 years (N=132)</td>
</tr>
<tr>
<td>Geography Test (related to spatial skills)</td>
<td>246.28a,b,c</td>
<td>310.32a,e</td>
</tr>
<tr>
<td>Score for the term</td>
<td>271.22a,b</td>
<td>323.73a</td>
</tr>
<tr>
<td>Final examination score</td>
<td>270.34a,b</td>
<td>330.24a</td>
</tr>
</tbody>
</table>

*p<.05, **p<.01, ***p<.001.

Note: The average scores with the same indices show differences in pairs (p<0.05).

Finally, it was checked whether there is any variation in terms of the separation of the curriculum into pilot and traditional one, as regards the attitude of 6th-grade students towards Geography. No statistically significant difference was traced [Mann-Whitneyz=−.58, p=.56] in terms of the manner in which students understand their relationship with the subject.

4. Conclusions-Discussion

According to the findings of this research, it was observed that the attitude of students and teachers towards geography has not changed since it was researched for the last time in Primary Education (Katsikis, 2001; Klonari, 2002; 2004; Klonari & Koutsopoulos, 2005). With the application of the new curricula of studies and the use of New Technologies and the digital school, one would expect that an evident improvement would be made as regards the attitude of both students and teachers towards the subject. Nevertheless, the same negative attitude towards geography is still observed, and it continues being a minor subject. Only 1/6 of the total sample reported a very good attitude towards the subject, while 5/6 (82.4%) showed a medium or poor attitude.

Moreover, it is interesting that although the teachers stated that they consider geography to be very or somewhat useful for the person’s future life, yet not even one teacher demonstrated a very good attitude towards the subject. By contrast, 43.3% reported poor attitude, and 56.7%, i.e. more than half of them, reported medium attitude. It should also be noted that in a previous research (Klonari et al., 2014), most of the teachers stated that they were particularly satisfied with the new curriculum and the teacher’s book. Thus, this attitude may be attributed either to the erroneous application of the new curriculum, or to inadequate teaching (Klonari et al., 2011).

In older studies, teachers attributed such negative attitude to the lack of educational material (Klonari, 2004). However, today, with the creation of new 2D and 3D maps, air photographs, rich educational material (learning objects) and educational software on Photodenetro (Greek
National Aggregator of the Digital School), accessible to everyone, and from everywhere (easy access of schools to the Internet), geographic education should have escaped the traditional teaching models and should be relying on active-discovery methods, based on holistic, active, experiential involvement of students, which would make the course of geography particularly appealing, interesting and exciting to children, it seems that this is not among the teachers’ intentions. This is probably due to their unwillingness to further prepare the lessons, or to the pressure of the content that must be taught or because the use of technology is not so active and based on experiential involvement of students but traditional (for example only presentations with power point).

It was also observed in this research that teachers’ training did not seem to affect the attitude of either the teachers themselves or their students. It was quite striking that in the Geography test to which the sample students were assessed, the students whose teachers had not received training achieved better performance. This may be due to the fact that the preexisting personal experiences of teachers from their student years are very powerful, and affect teaching to a large extent (Klonari et al., 2011; Molin et al., 2015), and short-term training cannot have particular results. Moreover, the fact that most of the teachers consider themselves efficient to teach the subject of geography doesn’t agree with the students’ performance in geography tests. This fake image that have for themselves probably doesn’t let them improve themselves through educational training.

It is also worth to be noted that although most of the teachers (except for two) stated that they were extremely or adequately proficient to teach the subject of geography, still they face difficulties with the textbook (39.4%). Therefore, we observe that teachers do not have a clear and realistic image of their teaching.

Finally, it was observed that the teachers’ experience plays a significant role in their teaching, and in the long run, in the students’ performance in the subject of geography. Students with experienced teachers showed better performance in the geography test, compared with students whose teachers had fewer years of prior working experience.

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