Original Research Article

Factors affecting the Completion of Mathematics Homework in a Middle Secondary School in Bhutan

ABSTRACT

Home work is an activity provided to the students by the teachers as a part of the learning processes in a particular subject. Studies in other parts of the world have identified some key factors for not completing homework, but no literature is available on the subject in Bhutan. This study aimed to investigate the factors affecting the completion of home work by the students in Bhutan in mathematics. The study employed quantitative methodology and administered survey questionnaire among 79 students from classes VII to X in Arekha Middle Secondary School. Majority of the students (n=68, 96%) ranked number one reason for not completing homework as "I am too tired to work on my assignment after a hectic day's schedule" followed by (n=66, 83.5%) "My parents do not care if I do my homework assignments". The lowest ranked reason (n=3, 3.8%) was "I misplace the instructions because I don't write them on my notebook." The study concludes that students are either overworked or lack motivation given no parental care, whereas carelessness on the part of student seems not a major issue. Therefore, the study recommends need for proper planning of school activities and active parental involvement is students' homework. However, further studies involving multiple subjects and different schools would help formulate better homework management policy in the schools in Bhutan

Keywords: Factors, Homework, Mathematics

1. INTRODUCTION

Homework is very important for the students, which supplements their understanding on a particular concept. Homework is defined as the task that students are needed to complete at their home [1]. In addition, [2] defined homework as "tasks assigned to students by school teachers that are meant to be carried out during non-school hours." In addition, [3] claimed that the homework is an extended work which helps to strengthen the students' learning. In the study conducted by [2], It was found that the number of advantage in completing the homework were improvements in factual knowledge, understanding concept, attitudes to learning, study skills, self-discipline, and problem solving skills.

In addition, the finding concluded that the homework improved academic achievement for high school students. Further, homework helped the students to develop their study habits. Furthermore, homework encouraged the students to explore relevant resources from various sources. However, most of the time

teachers in the school inevitably hear the teachers complaining about students not completing their homework on time. Homework can become a significant issue if teachers do not intervene before it becomes an issue. Some of the factors for not completing the homework were; students did not understand the assignment, some lacked support at home, while others are making their choice not to complete the task [4].

1.1 Purpose

The motivation for the conduct of research was developed upon hearing various subject teacher complaining and sharing over casual talks over the students failing to complete their homework on time. In addition, it remained the subject of discussion during general staff meeting [5] and departmental meeting [6].

Further, the researchers encountered number of students who did not complete their homework on time. In the beginning, the researchers believed that the reason could be a motivational issue from subject teachers or that of students' interest in the learning of the subject. However, after conversation with the students, researchers realized that there was more to it than just whether they liked the subject or were motivated. Some of these students were found struggling with basic skills that were needed to complete their homework upon providing additional support during free time and after school hours. This has developed a researcher interest to uncover the factors or barriers that prevented students from completing the homework on time.

2 LITERATURE REVIEW

Homework is a task to be completed outside the classroom. Assigning and evaluating the homework in class has become a part of the education system. According to [7] homework drills the students to make sure that the students understand the prerequisite skills for the day's lesson. It plays a very important role in improving academic performance [8] and [9]. In addition, [10] and [11] stated that homework acts as a channel of communication between teachers and parents, as well as students too. Further, [12] added that the existence of systematic assigning, collecting, evaluating and returning with constructive feedback on the homework is a sign of good classroom management.

Although homework gives additional work for teachers, it is necessary for effective teaching. [13] shared that the teachers have the best intention of evaluating students' homework with the appropriate rubrics.

In addition, the students should be made clear on how their homework will be evaluated. On other hand, the students feel that feedback shows the teacher cares about their work [14]. In addition, it gives an affirmation for their efforts put into completion of their homework on time. Therefore, under no circumstances the teacher should fail to assign, collect or evaluate the homework on time. Improvement in academics and learning are not the only purposes of homework, it instills a good work ethic into the students [15].

In addition, the study conducted by [16] found out that homework contributes in developing a sense of responsibility in the student. Further, [17] stated that homework helps to develop a sense of greater self-direction and self-discipline, time management, and more independent problem solving. Although homework has lots of benefits in students' learning [18] states that there is no way to show homework's effect on actual student learning. In addition, [18] found out that there is no significant correlation of homework completion to the academic achievement and personal growth of learning. Further it has been found out that homework has a negative impact on the academic achievement of economically disadvantaged students [15]. Furthermore, [17] has noted that students living in poverty have lots of problems completing homework.

3 METHODOLOGY

Quantitative method was employed for this study. A survey questionnaire adapted from [12] was used to gather data from the participants asking relevant questions. The participants were selected purposely [19] because the researcher teaches that class. In addition, class teachers of those classes have also expressed a repeated concern about willingness to explore the relevant factors that have resulted in the poor homework habits for their class.

3.1 Research Site, Participants & Sampling

The participants were selected randomly from classes 7th to 10th grade at Arekha Middle Secondary School. There were 79 students participated in the study.

3.2 Data Collection Tools

The study adopted the 10th-item questionnaire developed by [20]. The study had adopted a 5-point Likert-type scale where 1 refers to "strongly agree" and 5 refers to "strongly disagree". Therefore, there are 5 classes with a class interval of 0.8 to find out the factors that contribute to not completing the homework on time.

3.3 Data Analysis

The data was collected from survey questionnaires and were put in the database. Then the data was analyzed using Statistical Package for Social Sciences (SPSS). Descriptive Statistics, namely frequency and percentage were calculated to determine the factors that contribute to not completing the homework on time.

4 RESULTS

4.1 The factors affecting completion of home work

The highest ranked factor for not completing homework (n=68, 96%) was "I am too tired to work on my assignment after a hectic day's schedule." followed by (n=66, 83.5%) "My parents do not care if I do my homework assignments" (Table 1). Next highest ranked were (n=66, 70.8%) "The assignment is too complicated that it eats up my time looking for other resources" and "Teachers give too many requirements other than assignment" (Table 1). On the other hand, the lowest rank reason was (n=3, 3.8%) "I misplace the instructions because I don't write them in my notebook" followed by (n=14, 17.8%) "The subject matter does not appeal to me" and "I prefer to network with my friends and play with my mobile phone because it's more interesting" (Table 1)

Table 1 The factors affecting completion of home work

Item	Frequency	%	Rank
I'm too tired to work on my homework after a hectic day's schedule	68	96	1
My parents do not care if I do my homework assignments	66	83.5	2
The assignment is too complicated that it eats up my time looking for other			
resources	56	70.8	3
Teachers give too many requirements other than assignment	56	70.8	4
I do not know the answer because the teacher's instructions are not clear		60.8	
	48		5
I prioritize working on my homework and assignments needed for the next day	36	45.6	6
I don't understand the lesson	34	43	7
The subject matter does not appeal to me	14	17.8	8
I prefer to net with my friends and play my mobile phone because it's more			
interesting	14	17.8	9
I misplace the instructions because I don't write them on my notebook	3	3.8	10

5 DISCUSSION

5.1 The factors affecting completion of home work

The highest ranked factors affecting the completion of the homework was the students were overburdened with school tasks and hectic day schedule. [20] and [21] also found out that 78% of the

participants agreed the students were overburdened by homework. Given homework is the task assigned by teachers that gives them the exposure in learning new concepts or information [22] teachers will have to assign homework. However, our finding suggests need to minimize the number of questions while assigning homework to the students or managing school activities properly.

The second highest ranked factor affecting the completion of the homework by the participant was lack of parental support during the completion of homework. Past studies (e.g. [23]; [24]; [25]) and [26] have concluded that parental support in completing homework is very important as parents spend more time with their children. However, [27] found out the challenges of parents to assist the students in completing homework in case the parents are uneducated.

The third factors affecting the completion of homework was it requires time management to cope with the challenges of getting the task done on time. As the tasks were assigned to the student as the follow-up of the lesson learned and to evaluate their understanding, students should be able to exhibit their learning. This study supports earlier findings by [28]; [29] and [30] where time management affected the completion of homework on time.

The study conducted by [31]; [20]; [30] and [28] found out that most of the participants shared that the factor would be subject itself. However, this study found that difficulty and time spent on social media were second lowest ranked reasons and misplacing homework instruction was the lowest ranked reason. More studies involving different schools in Bhutan would be required to explain this reason. Probably, involvement of researcher in teaching this subject to the research participants could have influenced the way they responded. However, if reason is due to lack of interest then immediate feedback to the task would help develop interest in the subject and motivate the students in completing their work on time [32].

6 LIMITATION

The current study focused the students of only one Middle Secondary School involving Mathematics subject and the sample in this study was relatively small, so, it cannot be generalized to students of Bhutan. In addition, the methodology employed in this study is limited to quantitative method.

7 RECOMMENDATION

A further study is recommended with involvement of students, teachers and parents nationwide for triangulation. Another study is suggested to conduct using mixed method, which would give more authentic factors. It is recommended that the teachers provided students with lesser homework centered around competency based learning for better learning in school. The other recommendation that would

help students enable to complete homework on time is advocating parents and providing the space of ownership and supporting the students.

8 CONCLUSION

Many of the students found difficult to complete the homework on time due to the overburdened school tasks, lack of parental support at home, time management issues, teachers providing them with too many requirements other than assignments with no clear instructions and the toughness of the subject. Providing competency based learning activities with lesser homework is recommended. Initiate Parenting programs for advocacy to support the students in completing homework.

CONSENT AND ETHICAL APPROVAL

Written approval to conduct the study in the school was obtained from the school administration and respective class teachers before data collection. Moreover, consent letters were duly signed by all the participants before attending the survey questionnaire.

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