

EFFECTIVENESS OF USING LEARNER'S MANUAL TO THE iGENERATION GRADE 10 STUDENTS IN THE PUBLIC SECONDARY SCHOOL

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Abstract: Learning is facilitated by various teaching methodologies. To provide material, like books, learners' manual and other educational resources make the classroom instruction made easy. Through the Learner's Manual, every student can read in advance and will be familiar with the topic before the teacher holds the lecture proper.

The ratio of 1:1 Learner's Manual to every millennial student was expected to bring a good result in terms of the student's participation in the class.

Based on the finding of the study, there was a significant effect of using a Learners' Manual in Science by the Grade -10 students of Pedro E. Diaz High School (PEDHS) in their academic performance. The Science students got a higher grade in the class participation, higher score in quizzes and major examination. The Grade 10 students become more participative, more interested to learn and indulged in a fruitful interaction with their teacher.

Keywords: Learner's Manual, iGeneration, Participative, Integration, Teaching methodology, learning and modules

1. INTRODUCTION:

The world is fast changing. Everyone is capitalizing on technology. Every sector is technologically-driven and this goes to education sector as well. Because of technology, teaching methodology has to adapt so that it can make sense to the Generation Z students. In general, the Generation Z or simply iGeneration are those born between 1995 – 2014 (Randstad, 2016). The iGeneration craves for regular and technology-enhanced learning opportunities. They look for educational opportunities that use visually enhanced methods of teaching (Cooks, 2015).

They need to experience change or innovative teaching methods in order to have their attention. "Catching the attention of the millennials can be difficult" (Tsuruta, 2015) how much more to the iGeneration. According to the study conducted by University of Illinois Springfield (2015) showed that Generation Z has attention span of 8 seconds only to a video or to other learning materials. This is a great challenge to the teachers of the iGeneration Grade 10 students taking up Science.

Every teacher has its own way of selecting and developing a technique for teaching and may draw various experiences to get the attention of the students. This is called teaching methodology or pedagogy. The teaching methodology facilitates the learning process of the students. The students become productive if they are motivated. The motivation to acquire new knowledge depends upon how well the teacher prepares the lesson and how the teacher delivers the lesson in the class.

To be a good and effective teacher who is concerned with the total development of the students in spite of the help given by the administrators like facilities and materials. There are difficulties experienced by the teacher in attaining the good outcomes of teaching. The skills in teaching play a very important role in the delivery of the lesson.

In Educational setting, the teachers are the class room manager. It is a great challenge to every teacher, the molder of minds, to improve their student's performance so that someday they will be successful in life. The Australian Institute for Teaching believes that "Teachers share a significant responsibility in preparing young people to lead successful and productive lives" (www.aitsl.edu.au).

Teachers are expected to be creative and resourceful in order to deliver their lesson effectively and instill new knowledge to their millennial students who are more visual.

With the ASEAN integration, the students are not only expected to learn but also to be more competitive, skillful and know how to apply what they have learned in the school.

2. STATEMENT OF THE PROBLEM:

The Pedro E. Diaz High School (PEDHS) is a public secondary school in Muntinlupa City. As a public secondary school, most of the students were not well-off. The PEDHS is not the home of the Science achievers since Muntinlupa City has science high school. However, PEDHS has still its mandate of producing quality and competitive students.

The present study sought to find the Effectiveness of using Science Learner's Manual to the iGeneration Grade 10 Science students in public secondary school of Pedro E. Diaz High School (PEDHS), Muntinlupa City. In order to answer the main problem, the following questions were asked;

1. Having a Learner's Manual, are you able to follow your teacher's discussion?
2. Having a Learner's Manual, how do you find your quizzes result?
3. What help do you see having a Learner's Manual?
4. How your Learner's Manual help you in your assignment and homework?
5. How do you manage your study time now?

3. MATERIALS AND METHODS:

The study was descriptive. It used self-made yet validated Survey Questionnaire. It employed simple statistical tools like, Percentage-Frequency and Weighted Mean. There were 100 respondents of the study. They were randomly selected from the four (4) sections. The researcher allocated 25 students per section in order to provide a heterogeneous population sample. The study adopted the Likert scaling of 5 being the highest and 1 being the lowest.

4. FINDINGS AND ANALYSIS:

With regards to the demographic profile of the respondents, the study found out that the sex distribution was equal. There were 50 female and 50 male Millennial Grade 10 Science students and most of them belong to the age bracket 15 – 17 years old.

Table 1: Indicators of the Effectiveness of using the Learner's Manual

	Effectiveness of using the Learner's Manual	Wt. Mean	Verbal Interpretation	Rank
1.1	Because of my Learners' Manual, I can follow my teacher's discussion.	5	Strongly Agree	1
1.2	I find my quizzes easy because of the exercises in the learner's manual that I usually look back as a way of refreshing myself of the lesson.	3.5	Moderately Agree	3
1.3	My Learner's Manual help me back track my activities, previous lesson and assignments	4	Agree	2
1.4	Having a Science Learner's Manual, it gives me more interest to study.	4	Agree	2
1.5	Since I have my Learner's Manual, I can manage to review in the place where I like and most convenient time to me.	4	Agree	2
	Average Wt. Mean	4.1	Agree	

(4.50-5.00) Strongly Agree, (3.50-4.49) Agree, (2.50-3.49) Moderately Agree, (1.50-2.49) Disagree (1.00-1.49) Strongly Disagree

The above table presents the assessment of the iGeneration Grade 10 students in Science in the Effectiveness of using the Learner's Manual.

The data showed that, item no 1.1, *Because of my Learners' Manual, I can follow my teacher's discussion*, got the highest rank with a weighted mean of 5.0 with the verbal interpretation of *Strongly Agree*. Items number 1.3, 1.4, and 1.5 landed second in the ranking garnering average weighted mean of 4.0 with its verbal interpretation of *Agree* while item no. 1.2, *I find my quizzes easy because of the exercises in the learner's manual that I usually look back as a way of refreshing myself of the lesson*, got the last rank having a weighted mean of 3.5 with its verbal interpretation of *Moderately Agree*.

Looking closely to the data, item no 1.1 got the highest rating of 5.0 with the verbal interpretation of **Strongly Agree** in the assessment of the respondents. The iGeneration Grade 10 students can follow their teacher's discussion because of their individual copy of the Learner's Manual. It is possible for the students to glance every now and then while their teacher discussed their lesson. Their attention can be at their teacher holding the discussion or in the

Learner's Manual. In both situations, there is learning. The 5.0 responses can help us project that the learners who are very visual and whose attention is very short still get the intended learning. This finding was supported by Laskaris (2016) "**their attention spans are shorter** – they quickly move on to other forms of learning."

Moreover, in item no. 1.3, *My Learner's Manual helps me back track my activities; previous lesson and assignments* got only a remark of 4.0 or having a verbal interpretation of **Agree**. This implied that the Generation Z Science students made a self-review in order to clarify some vague ideas during the discussion, can be attributed to the characteristic of the iGeneration being simple and flexible yet visual (Cook, 2015).

Likewise, item no. 1.4, *Having a Science Learning Manual; it gives me more interest to study*, got the rating of 4.0 or having verbal interpretation of **Agree**. This probed that to be hocked for a couple of hours reading is very impossible for the iGeneration students their attention span is only 8 seconds (Cook, 2015). Besides, if there difficulties in the lesson, their digital attitudes will lead them to a more interactive and the use technology is not a problem for them. Hence, they are believers that technology provides them answer for them (McKenzie, 2016).

Furthermore, item no. 1.5, *Since I have my Learner's Manual, I can manage to review in the place where I like and most convenient time to me*. got the rating of 4.0, or having the verbal interpretation of **Agree**. This implied that learning is beyond the four corners of the classroom. With the advent of technology, Learning can be accessed anywhere. This revealed the characteristic of the iGeneration to be global and mobile. According to McKenzie (2016) students to today interact with technology. Thus we have the flipping of education where the learning takes place outside the classroom, but the essential engagement and practice is still conducted at school, by the all-important facilitator, rather than the teacher, added Ashley McKenzie.

Item no. 1.2, *I find my quizzes easy because of the exercises in the Learner's Manual that I usually looked back as a way of refreshing myself of the lesson taken*, got the lowest rating of 3.5 with a verbal interpretation of **Moderately Agree**. This implied that the iGeneration students do not only rely on refreshing themselves of their previous lesson through Learner's Manual. However, there are still who agree that their quizzes became easier because of the possibility of browsing over the pages of their manual. This can be attributed to the characteristics of the iGen students that if there is the possibility of doing a review through Google, they Google it (Cook, 2015).

With regards to the overall assessment of the iGeneration Grade 10 students on the Effectiveness of the Learners' Manual in Science, it got a rating of 4.1 with a verbal interpretation of **Agree**. This implied that even in this technologically-driven generations (Millennial and Generation Z), the value of the Learner's Manual as supplementary to improve learning performance has still its place.

For the Pedro E. Diaz High School (PEDHS) Grade 10 students, who mostly came from the poor family of Muntinlupa City, their dependence to technology is not total. There were students whose gadget can't accommodate the Apps requirement. Even the school has its limitation to provide for the technology resources to speed up student's learning. Therefore, the Learner's Manual has its importance to the students of PEDHS. Learner's Manual cannot be set aside in increasing the performance of the students. The Learner's Manual was found to be useful and effective means in improving the learning process of the iGeneration Grade 10 students.

5. CONCLUSIONS:

Based on the finding of the study, there is a significant effect of using a Learners' Manual in Science to the iGeneration Grade -10 Science students in the secondary public high school to their academic performance. The Generation Z or iGeneration Grade 10 Science students became more participative in the discussion and the class, in general, became alive since they had the chance of browsing in advance their lesson through the Learners' Manual.

Besides, they were able to follow their teacher's discussion. The students were able to find their quizzes easy because of the exercises in the Learner's Manual that they usually look back as a way of refreshing the lesson. Through the Learner's Manual, the Generation Z Science Grade-10 students had the interest to review their activities, previous lesson and assignments. Moreover, with the Learners' Manual, they had the possibility to review their lesson in Science during their free time at most convenient place. This made them improved their academic performance and be more competitive and prepared for the ASEAN integration.

6. RECOMMENDATIONS:

The researcher recommends (1) the continuity of the study using a bigger population and wider scope, (2) sustain the practice of having a Learners' Manual per student (3) implement the same methodology in other public school in Muntinlupa district to provide a more comprehensive and valid result, and (4) provide incentives to those who are excelling in their innovative instruction to encourage sustainable and competitive learning.



Fig.1 & 2 Class room session

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