

Effectiveness of the Budget of Lessons (BoL) and Learner's Activity Sheets (LAS) to the Performance of Grade V Pupils in Science

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Abstract — This study primarily aimed to determine the effectiveness of Budget of Lessons (BOLs) and Learners Activity Sheets (LASs) to the Grade 5 pupils in Science amidst the Pandemic. The findings was the bases for a proposed improvement of the intervention schemes. The study utilized Universal Sampling in identifying the respondents of the study. This study used the quasi-experimental method of research to use Budget of Lesson and Learners Activity Sheets (LAS) in Science to measure the performance of the Grade 5 pupils amidst the pandemic in quarter 2. The results implied that the pupils in Grade 5 give a tremendous performance (Excellent Level) in Science amidst the pandemic, leading to an excellent academic performance having a weighted mean of 37.98. Furthermore, the utilization of Budget of lessons and Learners activity sheets helps the learners improve their science performance considering the results with hundred percent of learners with excellent performances. Maybe because the budget of lessons and learners activity sheets are crafted based on the learners need. In other words, these type of Self learning modules are already contextualized which means easy to understand by the learners. The Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) plays a big role in improving the pupils' academic performance considering that Science subject is one of the major subjects that contributed to the low performance of the pupils in any type of learning to be tested. Therefore, to create a big leap in mathematics performance, the teacher should utilized the Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) in improving learning performance in Science. Moreover, there was a positive effect on the utilization of Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) to the performance of Grade 5 pupils because the aforementioned materials undergone series of quality assurance before the subject coordinator allows the school to use the materials.

Keywords — *Budget of Lessons; learner's Activity Sheets; Performance; Science;*

I. Introduction

The development of technology and education is inseparable from the development in the field of science. The process of scientific development done by scientists brings positive impact for the development of technology, by the creation of equipment is called technology products. They also bring advancement in the field of Science. In relation to school learning, science is often associated with science lesson (Natural Science). Learning science in primary schools in the implementation of learning, teachers are required to be able to apply science to produce products

that can be justified truth. Rina (2013: 3), in an educational journal entitled science development with science process skill approach using free modified experimental method and guided experiment in terms of scientific attitude and learning motivation of students reveals the challenge of learning today is the need to develop learning adapted to the progress of science and technology so that it can be a solution to problems related to Science.

Based on recent situations, teaching to students is quite challenging, especially in delivering the science competencies because there will be no face-to-face between the students and teachers. Thus, this research offers the use of pupils' worksheet based on science process skill in learning. The students' worksheet is expected to content questions and contact activities that can stimulate students to work their modules specially in pandemics. Performing science process skill is following the demand of curriculum and it can solve the problem in the test. Based on the above explanation, pupils' worksheet based on science process skill is expected to encourage students' motivation in the learning process of science lesson so it can improve students' learning outcome and grow scientific attitude. With the aforementioned details, the researcher wanted to know whether the Budget of Lessons and Learners Activity Sheets are understandable to the part of the learners even without the teacher instead their parents will guide them at home. Thus, she is greatly motivated to focus on her study on the Budget of Lesson (BOLs) and Learners Activity Sheets (LASs) and Performance of Grade 5 pupils in Science amidst the pandemic.

This study aimed to determine Effectiveness of Budget of Lessons (BOLs) and Learners Activity Sheets (LASs) to the Performance of Grade 5 pupils in Science amidst the pandemic. The findings of the study will be the basis for a proposed improvement of the Intervention schemes.

Specifically, this study sought to answer the following questions.

1. What is the pretest performance of the Grade 5 pupils in Science before the integration of Budget of Lessons (BOLs) and Learners Activity Sheets (LASs) in Quarter 2?
2. What is the posttest performance of the Grade 5 pupils in Science after the integration of Budget of Lessons (BOLs) and Learners Activity Sheets (LASs) in quarter 2?
3. Is there any significant difference on the pretest and posttest performance of the Grade 5 pupils in Science before and after the integration of Budget of Lessons (BOLs) and Learners Activity Sheets (LAS)?
4. What Improvement on the intervention's schemes be proposed based on the findings of the study?

II. Methodology

Design. This study utilized the quasi- experimental type of research in gathering the responses employing the quantitative approach. Alta Elementary School in Ormoc City District 1 in School Division of Ormoc City is the study's main locale. The 47 Grade 5 pupils are the main respondents of the study and the data based on the students' performance ratings was utilized. This research is mainly focused to gather data on: Effectiveness of Budget of Lessons (BOLs) and Learners Activity Sheets (LASs) to the Performance of Grade 5 pupils in Science amidst the

pandemic; The performance of Grade 5 pupils in the pretest and posttest was also prepared; The results will be the basis for and improvement intervention scheme. The researcher utilized universal Sampling in selecting the respondents of the study.

Sampling. There are 47 pupils who are included in the study and the primary means of reaching the respondents is through personal messenger account and cell numbers of the parents and to the learners as well

Research Procedure. The researcher prepared the research design and tools to be utilized in the study. The researcher asked permission from the Schools Division Superintendent and the Public School District Supervisor (PSDS) to conduct a research study in the school. The researcher immediately conducted an orientation to the teachers who conducted the test. The research instrument will be administered to the identified respondents. Then the teacher will use the Regional Test Item Bank focusing on the 2nd Grading (Most Essential Learning Competencies in Science. After conducting the pretest, the researcher immediately starts the intervention/activities by giving the printed Budget of Lesson and Learners Activity Sheets (LASs) to the identified participants. Moreover, posttest will be automatically follow to evaluate or validate the effectiveness of the Budget of Lesson and Learners Activity Sheets (LASs) to the performance of grade 5 pupils. Tallying of results and treatment of data. Analysis and Interpretation of Data. Making of Proposed Improvements

Ethical Issues. The right to conduct the study was strictly adhered through the principal's approval, approval of the Public School District Supervisor, and the Superintendent of the Division's approval. Orientation of the respondents both the students and the teachers was done separately. In the orientation, the issue on, an Informed Consent Form was accomplished for the gathering of data.

Treatment of Data. The effectiveness of Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) to the performance of the Grade 5 pupils in Science amidst the pandemic in quarter 2 was treated through a weighted mean, Mean percentage Score and T-test for mean difference and descriptions (refer to appendices for the scoring and description). The data on the pretest and posttest was presented through Simple Percentage. Performance of the grade 5 pupils in the pretest and posttest was gathered through the use of rating rubrics and the results were treated through weighted mean and t-test for the mean difference.

III. Results and Discussion

Table 1

Pre-Test Performance in Science for Grade 5 Pupils in Science

Score Range	Description	Grade	
		Frequency	%
33-40	Excellent	37	79
25-32	Very Good	10	21
7-24	Good	0	0
9-16	Fair	0	0
0-8	Poor	0	0
Total		47	100
Weighted Mean		34.91	Excellent

Table 1 presents the pre-test performance of the Grade 5 pupils in Science amidst the pandemic. The table are presented through the different range of score which are considered as class size or class interval with a corresponding level of performances. The table also presents the percentages of pupils based on their performances with corresponding frequencies. Based from the table it shows that the greatest frequency which is equal to 37 pupils or 79 percent out of 47 total number of respondents is in the Excellent performance level which has the score ranging from 33-40 while there were 10 total number of grade 5 pupils or 21 percent from score ranging from 25-32 and none of the pupils belong to GOOD, FAIR and POOR with a corresponding core ranging from 0 to 8, 9 to 16 and 7 to 24 respectively.

The results in table 1 implied that the pupils in Grade 5 shows an amazing performance which gives almost an excellent performance in Science amidst the pandemic which means that though they are experiencing the new type of learning delivery in Science competencies they really give their very best to exert extra effort to learn from the subject that is why they lead to an excellent result in the academic performance in Science even though majority of the pupils are not yet exposed to the Learners Activity Sheets for Second quarter . Another reasons for a positive result it because majority of the pupils are already familiar with the intervention from the first grading period in the implementation of the Distance Modular Learning Modality Delivery as well as to the topics to be presented because they have all the time to do the lessons in advance using other platforms in acquiring learning such us DepEd Commons etc. Another fact that could add in the positive result is that most of the pupils now have different gadgets to be utilized in finding or

searching different topic in the internet that could really help in augmenting in learning the topic base on the most essential learning competencies in Science and Technology. Moreover, though there is good connotation that still the traditional method can improve the performance in Science, the researcher still needs to consider the 21 percent who are in the very good level, the researcher still needs to continue the aforementioned strategies/approaches using Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) in order to gain a mastery level in the Science subject competencies.

Table 2
Post-Test Performance In Science of Grade 5 Pupils

Score Range	Description	GRADE	
		Frequency	%
33-40	Excellent	47	100
25-32	Very Good	0	0
7-24	Good	0	0
9-16	Fair	0	0
0-8	Poor	0	0
Total		47	100
Weighted Mean		37.98	Excellent

Table 2 shows the posttest performance of the Grade 5 pupils in Science amidst the pandemic. The table are presented through the different range of score which are considered as class size or class interval with a corresponding level of performances. The table are presented through the different range of score which are considered as class size or class interval with a corresponding level of performances. The table also presents the percentages of pupils based on their performances with corresponding frequencies. Based from the table it shows that the greatest frequency equal to 47 Grade pupils or 100 percent total number of respondents in the Excellent level having the score ranging from 33-40 while none from the Grade pupils belong to other level of performances such as Very Good, Good, Fair, and Poor performance level with a score ranging from 0 to 8, 9 to 16, 7 to 24 and 25 to 32 respectively.

The results in table 2 implied that the pupils in Grade 5 are motivated in learning the different topics in Science through the use of Contextualized Learners Activity Sheets (LASs) that was crafted based on the Most Essential Learning Competencies (MELCs) that were assigned in the Grade 5. The grade 5 pupils really give a tremendous performance (Excellent Level) in Science

amidst the pandemic, leading to an excellent academic performance having a weighted mean of 37.98. Furthermore, the utilization of Budget of lessons and Learners activity sheets helps the learners improve their science performance considering the results with hundred percent of learners with excellent performances. Maybe because the budget of lessons and learners activity sheets are crafted based on the learners need. These type of Self learning modules are already contextualized, which means easy to understand by the learners and it underwent a series of validation of different Learning Resources personnel head by the LR Supervisor.

Another implication of the results in table 2 is that the pupils in Grade 5 show an amazing performance and really give their very best to exert extra effort to learn from the subject. That is why they lead to an excellent result in the academic performance in Science. Exposing the Grade 5 pupils to the Learners Activity Sheets for Second quarter really bridging them to learn new things based on the local ideas that could fully understand the competencies. Another reasons for a positive result it because all of the pupils are already adopted fully to the intervention from the first grading period up to the second grading period and they have positive responses in using it and part of the important steps in the implementation of the Distance Modular Learning Modality Delivery as well as in the delivery of the different topics to be presented every quarter. Aside from acquiring knowledge and Skills in Science and technology through the use of Contextualized Learners Activity Sheets, it was also reiterated by the teachers that the pupils have also the right to learn the lessons in advance using other different platforms in acquiring learning such us DepEd Commons, YouTube, LRMS Portal RBI and other virtual platforms . In other words the pupils can use gadgets in finding or searching if they have topic that is difficult to learn or comprehend though of the internet in augmenting their learning gaps base on the most essential learning competencies in Science and Technology.

Table 3

Test of Difference Between the Scores in the Pre-test and Post-test Scores

Groups	Test Scores		p value	Level of Sig	Decision	Interpretation
Grade	Pre	34.91	0.02	0.05	Reject H _o	Significant
	Post	37.98				

Table3 presents the test of difference between the pretest and posttest scores of the Grade 5 pupils in Science amidst pandemic. The results shows that in Grade 5 pupils, the test scores both pretest and posttest shows a big increase from 34.91 to 37.98 which resulted to a computed p value of 0.02 which is lesser than the value of level of significance equal to 0.05 which means that there

is a significant effect of BOLLAS in increasing the academic performance of the Grade 5 pupils in Science amidst the pandemic, thus the hypothesis is rejected.

The results in table 3 implies that the Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) plays a big role in improving the academic performance of the pupils considering that Science subject is one of the major subjects that contributed to the low performance of the pupils in any type of learning to be tested. Therefore, to create a big leap in mathematics performance, the teacher should utilized the Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) in improving learning performance in Science. Moreover, there was a positive effect on the utilization of Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) to the performance of Grade 5 pupils. The materials mentioned above undergone a series of quality assurance before the subject coordinator allows the school to use the materials.

IV. Conclusion

Based on the findings of the study, it showed that the Budget of Lessons (BOLS) and Learners activity sheets (LASs) are significantly effective in increasing the academic performance of the Grade 5 pupils in Science amidst the pandemic considering that the results of the pretest is lower than that that of the results in the posttest.

V. Recommendations

1. That Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) should be utilized by all other teachers in the school where study is conducted so that other teachers may find the good things to be brought by the new self-learning materials not only in Science but also to other major subjects taken by the pupils.
2. The Chief in CID and other Education Program Supervisors should fully evaluate the different Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) utilizing the MELCs to let the teacher/s aware on the positive impact brought by the materials to the learners' interests and awareness.
3. The Learning Resource Supervisor should conduct training workshops on how to write Self-Learning Modules and or Budget of Lessons and Learners Activity Sheets based on standards from Content validation, language edition, and the format standard to follow.
4. Each education program supervisor in charge of each subject should see that all the output of the training workshop should be pilot-tested before it is officially utilized to the field.
5. . The School Principal should conduct INSET on how to conduct write shop focused on the contextualization of SLMs based on the needs of the community in order for them to be fully aware on the benefits given by materials specially in learning the materials using MELC-based approach.

6. Furthermore, the researcher allows future researchers to conduct the same study to verify the effectiveness of Budget of Lessons (BOLs) and Learners Activity Sheets (LAS) in improving the performance of the Grade 5 pupils in Science amidst this pandemic.

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AUTHOR'S PROFILE



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The author is born on August 18, 1976 at Ormoc City Maternity Hospital, Ormoc City, Leyte, Philippines. She finished her Bachelor in Elementary Education (BEED) specializing in Home Economics at the Leyte Normal University, Tacloban City, Leyte. She is currently enrolled at the Western Leyte College in her Masteral Degree Major in Administration and Supervision.

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She was awarded as SBM Level 3 Implementer during the “Pasidungog” last December 23, 2016 at the Ormoc City Division, Conference Hall. She also was awarded as Runner-Up during the “Division Search for the Best Implementers of Brigada Eskwela” Elementary Level (Medium Category) during the “Ganti ug Pahalipay” last June 23, 2019 at the Ormoc City Superdome, Ormoc City, Leyte.

She completed her “School Heads Development Program: Foundation Course” last December 10, 2017 at the Oriental Hotel Leyte, Palo, Leyte, Philippines. She also completed the “Teaching and Learning Excellence in School Leadership for Southeast Asia” (TEACHeXCELS) course Batch 5 Class 01 at the Leyte Normal University last August 1, 2018 with the overall rating of “A”.