

Effectiveness of Budget of Lessons (BOL) & Learners Activity Sheets (LAS) To the Performance of Grade 2 Pupils in Mathematics

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Abstract — This study aimed to determine Effectiveness of Budget of Lessons (BOL) & Learners Activity Sheets (LAS) to the Performance of Grade 2 pupils in Mathematics Enrolled In Sy 2021-2022 And Covers The 4 Weeks Competencies In Math 2. The findings of the study served as a basis of a proposed Intervention plan. This study used the quasi-experimental research design to utilize the Budget of Lessons (BOL) & Learners Activity Sheets (LAS) in mathematics in measuring the performance of the Grade 2 pupils. The researcher utilized random Sampling in selecting the respondents of the study. The test of difference between paired samples t-test on the Mathematics Performance of the Grade 2 Learners before and after the integration of Budget of Lessons (BOL) and Learners Activity Sheets (LAS) for the specific most essential learning competencies. Based on the findings found in table 3, The result of the t-test for paired samples indicates that the posttest mean of 39.0 is significantly higher compared to the pretest mean of 34.9 ($t = -9.014$, $df = 19$, $p\text{-value} < .001$). Therefore the null hypothesis which states that there is no significant difference between the mean pretest and mean posttest scores of the Grade 2 pupils before and after the integration of the Budget of Lessons and Learners Activity Sheets is rejected. • The result of this study indicates that the Budget of Lessons and Learners' Activity Sheets approach in teaching mathematics for Grade 2 pupils could potentially enhance the learning of the learners particularly in the identified learning competencies which are difficult to understand.

Based from the results in table 3, it was prevailed that though the use of Self Learning Modules is effective in improving the performance of the grade 2 learners in Mathematics, it could also gleaned that utilizing the contextualized learning modules or the Budget of Lessons and Learners Activity Sheets is also helpful in augmenting the difficult learning competencies that the learners could experience during the delivery of the most essential learning competencies.

Keywords — *Effectiveness; Budget of Lessons; Learners Activity Sheets; Performance of Grade 2 Pupils; Mathematics;*

I. Introduction

Effective and efficient teaching methods that could help improve pupils in the effects of Budget of Lessons and Learners Activity Sheets to the performance in Grade 2 mathematics are

most desired. According to Gurney (2007), teaching is effective and efficient when pupils are taught the right content, having enough learning materials and high ratio of teachers' time on the teaching activity. This requires a teacher to have passion in sharing knowledge with pupils while motivated with school management system. Mtitu (2014) also identified that, for effective and efficient teaching, learner centered methods that require teachers to actively involved pupils in the teaching and learning process must be applied.

The calendar year 2020 really gives challenges as well as concerns to all the people in the Philippines specially in the Department of Education. This is the time where the pandemic hits the entire Philippines and shocked the entire educational system since the big problems and issues particularly in dealing with students, parents and to the entire members of the internal and external stakeholders are at stake. It also creates big question mark on how to continue the delivery of the competencies and even continue their studies by moving to another level since all are not allowed to socialize with each other. Everything was change, teachers teaching in normal learning situation by interacting the students or learners in the four corner of the classroom and having real time in connecting them and right there and then, teachers can give technical assistance if there were learners who did not make it to the specific learning competencies without asking the parents or guardian. But now, it turns upside down, because the primary teachers of the learners are their parents or guardian, thus, they are the ones who are given the tasks in helping their children by monitoring the learners if they do their respective task per subject area. The teachers need also to see to it that the parents if possible will communicate constantly to their children during the allotted time given to them because there are time that the learners that they need assistance in answering the activity sheets.

Recognizing these challenges as well as the burden placed on teachers, the researcher decided to investigate the effects of using differentiated assessment in teaching mathematics. It is in this context that this study were encouraged to use differentiated assessment and improve the Effects of Budget of Lessons and Learning Activity Sheets to the Performance of Grade 2 mathematics and increase their self-efficacy towards Mathematics.

The findings indicated that the Effects of Budget of Lessons and Learners Activity Sheets to the performance of Grade 2 pupils in Mathematics teaching and learning was facing challenges such as poor in problem solving, inadequate self-practice and pupils' poor background in mathematics. Therefore the researcher recommends to make assessment on the background of their pupils in to decide teaching methods that can help pupils perform better in the Effects of Budget of Lessons and Activity Sheets to the performance of Grade 2 Pupils in mathematics. Moreover, pupils should put self-efforts and practice the Activity Sheets in learning mathematics amidst the pandemic.

With the aforementioned details, the researcher wanted to know if the Budget of Lessons & Learners activity sheets is really give advantages to the Grade 2 performance in Mathematics

particularly on the most essential learning competencies particularly on the competencies which the Grade 2 learners have find them difficult to answer or to comprehend.

This study aimed to determine Effectiveness of Budget of Lessons (BOL) & Learners Activity Sheets (LAS) to the Performance of Grade 2 pupils in Mathematics Enrolled In Sy 2021-2022 And Covers The 4 Weeks Competencies In Math 2. The findings of the study served as a basis of a proposed Intervention plan.

Specifically, this study sought to answer the following questions.

1. What is the pretest performance of the Grade 2 pupils in Mathematics before the integration of Budget of lessons (BOL) and Learners Activity Sheets (LAS) ?
2. What is the posttest performance of the Grade 2 pupils in Mathematics after the integration of Budget of lessons (BOL) and Learners Activity Sheets (LAS) ?
3. Is there a significant difference on the pretest and posttest performance of the Grade 2 pupils in Mathematics before and after the integration of Budget of Lessons (BOL) and Learners Activity Sheets (LAS) ?
4. What intervention plan can be proposed based on the findings of the study?

Statement of Null Hypotheses

Ho1.: There is no significant difference on the pretest and posttest performance of the Grade 2 pupils in Mathematics before and after the integration of Budget of Lessons (BOL) and Learners Activity Sheets (LAS).

II. Methodology

Design. This study utilized the Quasi- Experimental type of research design in gathering the responses employing the quantitative approach. Alta Vista Elementary School under the Ormoc City District 1 is the main locale of the study. The grade 2 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: The effectiveness of the Budget of Lessons and Learners Activity Sheets to the performance of the Grade 2 pupils in Mathematics; Recommendation to help improve the intervention plan; Proposed intervention plan based on the findings of the study.

Sampling. There are twenty (20) who are included in the study and the primary means of reach is through Facebook account, Messenger, calling through the cell phone number of parents and guardians. They were also reached through limited face to face.

Research Procedure. The researcher prepared the research design and tools to be utilized in the study. Approval and recommendation from the principal was sought. The researcher formulated the following procedures as guide in gathering of data:

The researcher asked permission from the Schools Division Superintendent as well as to the Public School District Supervisor (PSDS) to conduct a research study in the school.

The researcher immediately conducted an orientation to the teachers who will conduct 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 1st Grading (Most Essential Learning Competencies in Mathematics).

After conducting the pretest, the researcher immediately starts the intervention/activities by giving budget of lessons and printed Learners activity sheets in Mathematics in the first grading period to the identified participants. The posttest will be given to the aforementioned respondents after the intervention will be done for 4 weeks. The researcher will then consolidate the results in the pretest and posttest using MS excel for proper statistical tool to be used to determine whether there is a significant effect on the intervention given to the performance of the Grade 2 pupils.

Ethical Issues. The right to conduct the study was strictly adhered through the approval of the principal, approval of the Superintendent of the Division. Orientation of the respondents both the learners and the teachers were done separately..

Treatment of Data. The effectiveness of the Budget of Lessons and Learners Activity Sheets to the performance of the Grade 2 pupils in Mathematics was treated through a weighted mean and descriptions (refer to appendices for the scoring and description).

Results and Discussion

Table 1
 SAMPLE STATISTICS OF THE MATHEMATICS PERFORMANCE OF GRADE 2 PUPILS BEFORE THE INTEGRATION OF BUDGET OF LESSONS (BOLS) AND LEARNERS ACTIVITY SHEETS (LAS)

| Test | Mean | MPS | N | Std. Deviation |
|---------|------|-------|----|----------------|
| Pretest | 34.9 | 87.25 | 20 | 2.70 |

The table 1 above shows the sample statistical treatment of the Grade 2 Pupils with respect to their Performance in Mathematics subject particularly on the most essential learning competencies covers for four (4) weeks before the integration of the Budget of Lessons (BOLS) and Learners Activity Sheets (LASs). Based from the results in table 1 it was revealed that the Mean based from the pretest scores executed by the Grade 2 learners in taking the Learning Competencies in Mathematics before the integration of Budget of lessons and Learners Activity Sheets during the teaching and learning process, and the Mean result is 34.9. This results of the respondents is coming from the good performance they have shown even the integration is not yet introduced to them. Furthermore, the results on the summation of values over the total number of frequencies were resulted to a Mean percentage score which is equal to 87.25 percent which could be explained further that this is already a good performance of the Grade 2 pupils in the

abovementioned subject. On the other hand, the table 1 also prevails that out from the pretest scores that the Grade 2 pupils had gained, it resulted to a standard Deviation which is equal to 2.70 out from the Mean (34.9) & MPS (87.25).

Based on the result on table 1 on the sample statistics of the Mathematics Performance of Grade 2 pupils on the pretest performances based from the 4 weeks learning competencies implied that the Grade 2 learners who are the respondents of the study gained a very good learning performances in the sense that majority of the Grade 2 learners were scored above 30 points and above out from the total of 40 items in the pretest questionnaires given to them. This time also in which the respondents took the exam, they did not experience the Budget of Lessons and Learners activity sheets in Mathematics. The respondents just learned their skills and learning competencies based from the Self Learning Modules coming and provided from the central office. Some of the reasons why they learners really gained a very good performances in learning the skills in Mathematics is because they already know some of the processes during the implementation of the Modular distance learning delivery modality for the last year in which the learners having brothers and sisters within their respective homes in which they have shared their modules, thus they have already ideas on certain skills they wanted to learn. Secondly, the parents and or guardians have already ideas on the learning competencies that their children are wanted to learn in which it could further discuss that during the learning session, the parents have already minute ideas on the skills that the teachers wanted to learn to the learners. Moreover, the Budget of Lessons and Learners activity Sheets for the last year are made just to cater the different learning styles of the learners as well as their capacity to learn the skills. Another reason also is that they are different variety of learning Materials which could downloaded online or even off-line that could help the learners to learn the skills while doing the lessons in their respective homes through the help of their parents and or guardian.

Table 2
SAMPLE STATISTICS OF THE MATHEMATICS PERFORMANCE OF GRADE 2
STUDENTS AFTER THE INTEGRATION OF THE BUDGET OF LESSONS AND
LEARNERS ACTIVITY SHEETS

| Test | Mean | MPS | N | Std. Deviation |
|----------|------|-------|----|----------------|
| Posttest | 39.0 | 97.00 | 20 | 1.12 |

The table 2 prevails the sample statistical treatment of the Grade 2 Pupils with respect to their Performance in Mathematics subject particularly on the most essential learning competencies covers for four (4) weeks after the integration of the Budget of Lessons (BOLS) and Learners Activity Sheets (LASs). Based from the results in table 2 it was revealed that the Mean based from the pretest scores executed by the Grade 2 learners in taking the Learning Competencies in Mathematics after the integration of Budget of lessons and Learners Activity Sheets during the

teaching and learning process which results to a Mean of 1.12. This results of the Grade 2 learners is coming from the very good to excellent performances they have gained after the integration of the Budget of lessons and Learners Activity Sheets. This means that aside from the Self-Learning Modules that they have experienced coming from the central office, they also learned a contextualized learning materials in which this time, the full utilization of BOL & LAS are implemented the teachers to the Grade 2 Learners. Furthermore, the results on the summation of values over the total number of frequencies were resulted to a Mean percentage score which is equal to 97.00 percent which could be explained further that this is already a very good to excellent performance of the Grade 2 pupils in the Mathematics subject for the identified Most Essential learning competencies. The table 2 also prevails that out from the posttest scores that the Grade 2 pupils had gained, it resulted to a standard Deviation which is equal to 1.12 out from the Mean (34.9) & MPS (87.25).

Based on the result on table 2 on the sample statistics of the Mathematics Performance of Grade 2 pupils on the posttest performances based from the 4 weeks learning competencies implied that the Grade 2 learners who are the respondents of the study gained a very good to excellent learning performances in the sense that majority of the Grade 2 learners were scored above 35 points and there are respondents who acquired perfect score or 40 points (100%) out from the total of 40 items. Aside from the fact that the selected respondents just learned their skills and learning competencies based from the Self Learning Modules coming and provided from the central office. Some of the reasons why they learners really gained a very good to excellent performances in learning the skills in Mathematics is because the Budget of Lessons and Learners Activity Sheets are designed specific form learners different learning capacity and skills to be improved thus, there are tendencies that they cannot really difficult times in understanding the lessons for the specific time that the teacher is given to them to answer the worksheets. Another reason is that the respondents are already know some of the processes during the implementation of the Modular distance learning delivery modality for the last year in which the learners having brothers and sisters within their respective homes in which they have shared their modules and the parents and or guardians have already ideas on the learning competencies that their children are wanted to learn in which it could further discuss that during the learning session.

Table 3

PAIRED SAMPLES T-TEST ON THE MATHEMATICS PERFORMANCE OF GRADE 2 BEFORE AND AFTER THE INTEGRATION OF THE BUDGET OF LESSONS (BOL) & LEARNERS ACITIVITY SHEETS (LAS)

| | Paired Differences | | t | df | p-value |
|----------|--------------------|-------|--------|----|---------|
| | MEAN | S.D. | | | |
| PRE-POST | -4.15 | 2.059 | -9.014 | 19 | <.001** |

**Highly Significant

The Table 3 presents the test of difference between paired samples t-test on the Mathematics Performance of the Grade 2 Learners before and after the integration of Budget of Lessons (BOL) and Learners Activity Sheets (LAS) for the specific most essential learning competencies. Based on the findings found in table 3, The result of the t-test for paired samples indicates that the posttest mean of 39.0 is significantly higher compared to the pretest mean of 34.9 ($t = -9.014$, $df = 19$, $p\text{-value} < .001$). Therefore the null hypothesis which states that there is no significant difference between the mean pretest and mean posttest scores of the Grade 2 pupils before and after the integration of the Budget of Lessons and Learners Activity Sheets is rejected. • The result of this study indicates that the Budget of Lessons and Learners' Activity Sheets approach in teaching mathematics for Grade 2 pupils could potentially enhance the learning of the learners particularly in the identified learning competencies which are difficult to understand.

Based from the results in table 3, it was prevailed that though the use of Self Learning Modules is effective in improving the performance of the grade 2 learners in Mathematics, it could also gleaned that utilizing the contextualized learning modules or the Budget of Lessons and Learners Activity Sheets is also helpful in augmenting the difficult learning competencies that the learners could experience during the delivery of the most essential learning competencies.

III. Conclusion

Based from the findings of the study, the integration of Budget of Lessons and Learners Activity Sheets in the delivery of the Learning Competencies in Mathematics could potentially enhance the learning of the Grade 2 pupils.

IV. Recommendations

1. The Intervention plan for the Grade 2 learners as well as to the other learners should be utilized and practiced in order for the teachers to be guided on what should be the specific supplemental to be given to the learners to help improve their performances.
2. The Public School District Supervisor (PSDS) should conduct monitoring as part of the DFTACT journey as they embark in the supplemental materials in teaching in the new normal delivery of the learning competencies.
3. The School Principal should conduct In Service- Training (INSET) on how to improve the teaching skills of the teachers that is applicable in the new normal.
4. Teachers should attain the different stages of trainings including the in-service training to help them become competent and receptive to the different techniques in teaching in the new normal may it be in virtual training or in limited face to face approach.

5. Teachers should allow the students to let their parents helps to learn the subject to increase their potential in learning through their own pace in order for them to discover their potential during this time of pandemic.

Furthermore, the researcher allows future researchers to conduct the same study to verify the effectiveness of Budget of Lessons and Learners Activity Sheets to the performance of the Grade 2 pupils in mathematics as well as to other grade level.

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AUTHOR'S PROFILE



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The author is born on Aril 03, 1986 at Zamboanga Del Sur, Philippines. She finished her studies Bachelor in Elementary Education (BEED) specializing in General Subjects at the Pagadian Capitol College, Pagadian City. She was Teaching for three years from June 2008 - 2011 in Private School at Saint Columban College, Pagadian City, Philippines. She was also assigned as a substitute Teacher for three months from February 2018 – April 2018 at Concepcion Elementary School, Brgy. Concepcion, Ormoc City, Leyte, Philippines. She currently enrolled at the Western Leyte College in her Masteral Degree Major in Administration and Supervision.

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