



Republic of the Philippines  
Department of Education  
REGION IV-A CALABARZON  
CITY SCHOOLS DIVISION OF BIÑAN CITY

**PROJECT SANA ALL (Speed and Accuracy: Numeracy Intervention Project focusing on Addition and Subtraction for ALL Grade III Learners of Malaban East Elementary School**



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### **ABSTRACT**

The numeracy of Grade III learners significantly decreased based on the Project 4FO's result. This has a grave effect on the academic performance of the learners in Mathematics. This action research aimed to improve the numeracy of the Grade III learners of Malaban East Elementary School by developing their speed and accuracy in two of the basic operation, addition and subtraction. The study utilized 208 learners from grade 3 as the respondents of the study. The quantitative method was used in this action research using the teacher – made worksheet as the primary instrument in data gathering. The researcher also collected and tabulated the data to get a valid result. The result of this study was also used as basis for intervention. The said project evidently developed the learners' numeracy through number familiarization and constant drill.

The participants of the study showed a significant increase in their numeracy ability and speed and accuracy skills in Mathematics after the implementation of the project. It was also evident that there is a 4% drop in the number of non-numerates after the implementation of the numeracy intervention. It is recommended to continue conducting drills to improve the learners speed and accuracy skills in Mathematics through Project SANA-ALL.

**Keywords:** Speed and Accuracy, Numeracy, Intervention, Academic performance

## INTRODUCTION

The Covid-19 pandemic has caused a drastic effect in the delivery of quality basic education. It has brought challenges in the Philippine educational system that was addressed by implementing different Distance Learning Modalities (LDM).

However, recent standing of numeracy proficiency among Filipinos is deteriorating and at par compared to neighboring ASEAN countries. Based on the OPLAN 4FOs (4 Fundamental Operations) Pre-test Result of Grade III learners of Malaban East Elementary School, 92 out of 208 pupils (44%) of the Grade III learners are under the level of instructional and non-numerates. According to a study conducted by Noemi D. Gigante, (2020) Numeracy is one of the fundamental skills that a learner must develop because it can be used as a life skill in everyday life. That is why this study developed an effective and efficient numeracy project. This study is in line with the DO 12, s. 2015 or Guidelines on the Early Language, Literacy, and Numeracy Program. The study also supported the advocacy of OPLAN 4FOs, that pushes to enhance the quality of teaching and learning Mathematics in all schools.

The PROJECT SANA ALL improved the numeracy level of Grade III Learners using a teacher-made worksheet. Also, the researcher chose this study to help the Grade III learners became numerates by developing their speed and accuracy. The result of this study was used to help the emergent and non-numerate learners of Malaban East Elementary School.

## METHODOLOGY

The researcher collected the OPLAN 4FOs Pre-Test Result for the current school year. The researcher gathered the numeracy level of the respondents from their respective class advisers. The researcher also consolidated the OPLAN 4FOs result to identify the numeracy level and ability of the respondents. After collecting the data, the researcher will analyze the data through quantitative method. The researcher will summarize and

tabulate the data yielded from the speed and accuracy test, pre-test and posttest. Then, the researcher will utilize the appropriate statistical treatment.

The procedure for data collection were summarized below:

**Phase I. Preparation Stage.** Preparation and consultative meetings of the research team on the agenda as well as objectives of the study. Crafting of all different tools and instruments to be utilized in the study. Checking and validation of the instruments.

**Phase II. Data Gathering Stage.** Identification of probable respondents of the study. The researcher used the validated instruments for the data gathering procedure which included semi-structured interview, and FGD.

**Phase III. Data Analysis Stage.** Retrieval of all gathered data from the respondents. The researcher closely monitored the weekly result of the intervention thru a self-made monitoring tool.

**Phase IV. Summary and Interpretation Stage.** Crafting of research summary through major domains of the study.

**Phase V. Reporting.** Crafting the final paper including the results and recommendations of the study..

## RESULTS

The proposed numeracy intervention, **PROJECT SANA ALL (Speed and Accuracy: Numeracy Intervention Project focusing on Addition and Subtraction for ALL Grade III Learners of Malaban East Elementary School** was proven to be effective and efficient in developing the numeracy level of the respondents. The project is focused on the familiarization of numbers and its partner in order to increase the speed and accuracy in answering math-related questions.

The researcher crafted appropriate and acceptable worksheet that supported the aims of Project SANA-ALL.

The participants of the study showed a significant increase in their numeracy ability after the implementation of the project.

It was also evident that there is a 15% drop in the number of non-numerates.

## DISCUSSION

Project SANA-ALL is an acceptable and effective project under Quality in the School Based Management (SBM) of Malaban East Elementary School (MES-East). It is in line with the DO 12, s. 2015 or Guidelines on the Early Language, Literacy, and Numeracy Program.

The said numeracy intervention is proven to increase the numeracy level of the respondents. The project evidently developed the learners' speed and accuracy through number familiarization and constant drill.

After the conduct of the study, it is recommended to craft necessary learning materials focused on other basic operations, continue to conduct drills to improve the learners' speed and accuracy skills in Math, use the proposed intervention as guide or a benchmark to enhance the learners' academic performance in Math through Project SANA-ALL in other grade levels, and further validate the acceptability of the proposed intervention by continuously monitoring and evaluating Project SANA-ALL.

This study will aid the primary teachers of MES-East to improve their learners' numeracy level and speed and accuracy skills. This will also help the learners become independent through the use of teacher-made worksheets that are appropriate for their grade level. The series of learning materials that the teachers have developed is greatly beneficial for the achievement of the outcome of the numeracy intervention.

## ACKNOWLEDGEMENTS

Immeasurable appreciation and deepest gratitude for the relentless support and guidance of the following persons who in the way contributed on making this study possible:

1. To Almighty God, for giving the researcher the needed strength and perseverance to complete the objective despite all the challenges the researcher has encountered;
2. To the respondents of the study, for their full engagement and valid responses during the data gathering procedure of the study;
3. To the school principal Mrs. Jo-Anna Lorain R. Buenafe and PSDS Mr. Baldrin Belen for granting permission to the researcher to conduct this study;
4. To the family and colleagues who helped along the way, the researcher is beyond grateful for the unending support, encouragement for academic excellence, and valuable insights before, during, and after this action research.

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