



\*\*\*\*\*  
**STRENGTHENING NUMERACY THROUGH PARENT-STUDENT COLLABORATION:  
AN ACTION RESEARCH TO ENHANCE HIGH-LEVEL NUMERACY AMONG  
LEARNERS AT STA. MARIA ELEMENTARY SCHOOL 2024-2025**

**ARIEL MERCADO AQUINO**  
**Sta. Maria Elementary School**  
ariel.aquino002@deped.gov.ph

### ABSTRACT

**Introduction:** Numeracy is a fundamental skill essential for academic success and real-world problem-solving. However, many Grades 4 to 6 learners at Sta. Maria Elementary School continue to struggle in achieving high-level numeracy proficiency. Despite evidence supporting parental involvement, structured parent-student collaboration in numeracy development remains limited.

**Methods:** This action research utilized a pretest-posttest design involving selected learners and their parents. Baseline data were gathered through diagnostic tests. An eight-week intervention consisting of structured home-based numeracy activities, guided practice, and collaborative problem-solving tasks was implemented. Post-tests and feedback surveys were conducted to assess outcomes.

**Results:** Findings showed a significant improvement in learners' numeracy performance, particularly in higher-order thinking and problem-solving skills. Increased learner engagement and motivation were observed, alongside enhanced parental confidence in supporting numeracy learning.

\*\*\*\*\*

#### Editorial Team

**Editor-in-Chief:** Alvin B. Punongbayan

**Associate Editor:** Andro M. Bautista

**Managing Editor:** Raymart O. Basco

**Web Editor:** Nikko C. Panotes

#### Manuscript Editors / Reviewers:

Chin Wen Cong, Christopher DC. Francisco, Camille P. Alicaway, Pinky Jane A. Perez,  
Mary Jane B. Custodio, Irene H. Andino, Mark-Jhon R. Prestoza, Ma. Rhoda E. Panganiban, Rjay C. Calaguas,  
Mario A. Cudiamat, Jesson L. Hero, Albert Bulawat, Cris T. Zita, Allan M. Manaloto, Jerico N. Mendoza

\*\*\*\*\*

# INSTABRIGHT e-GAZETTE

ISSN: 2704-3010

Volume VII, Issue IV

May 2026

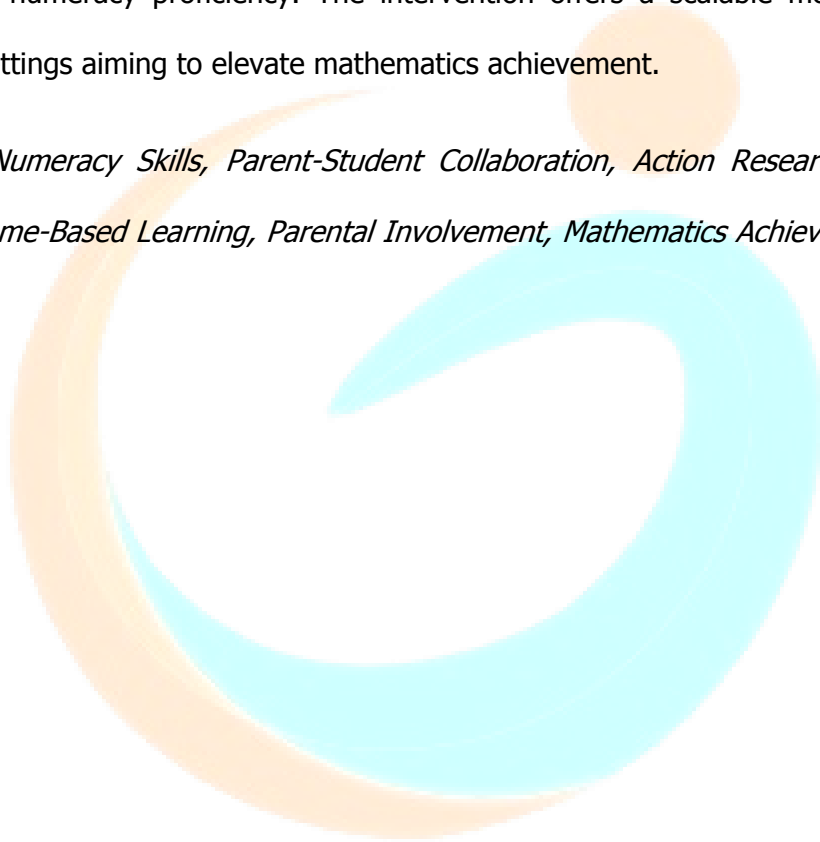
Available online at <https://www.instabrightgazette.com>



**Discussion:** The results affirm that structured parent-student collaboration effectively enhances numeracy skills while strengthening home-school partnerships. Active parental involvement plays a critical role in sustaining learners' academic development.

**Conclusion:** Parent-student collaboration is a practical, sustainable, and replicable strategy for improving numeracy proficiency. The intervention offers a scalable model for similar educational settings aiming to elevate mathematics achievement.

**Keywords:** *Numeracy Skills, Parent-Student Collaboration, Action Research, Elementary Education, Home-Based Learning, Parental Involvement, Mathematics Achievement, Learner Engagement*



\*\*\*\*\*

## Editorial Team

**Editor-in-Chief:** Alvin B. Punongbayan

**Associate Editor:** Andro M. Bautista

**Managing Editor:** Raymart O. Basco

**Web Editor:** Nikko C. Panotes

### Manuscript Editors / Reviewers:

Chin Wen Cong, Christopher DC. Francisco, Camille P. Alicaway, Pinky Jane A. Perez,  
Mary Jane B. Custodio, Irene H. Andino, Mark-Jhon R. Prestoza, Ma. Rhoda E. Panganiban, Rjay C. Calaguas,  
Mario A. Cudiamat, Jesson L. Hero, Albert Bulawat, Cris T. Zita, Allan M. Manaloto, Jerico N. Mendoza

\*\*\*\*\*