

EFFECTIVENESS OF COMPARING SET VIDEO CLIP IN DEVELOPING MATHEMATICS SKILLS IN GRADE 1 PUPILS

ABSTRACT

AUTHORS

Pamela Ayoc
Florence Mae Dela Cruz
Jonalyn Floria
Naomi Ramos
Marielle Anne Tapar

RESEARCH ADVISER

Abraham P. Muyrong II,
PhD

AFFILIATION

Bestlink College of the
Philippines

DISCIPLINE

Education

KEYWORDS

comparing sets • mathematics skills • grade 1 pupils • educational video clips • visual learning • early childhood education • instructional media • learner engagement • concept development • multimedia learning; comparing set; set video; video clip

ARTICLE ID

AASGBCPJMRA-B68856

Mathematics is a foundational subject in early childhood education, essential for developing logical reasoning, problem-solving, and critical thinking skills. This study examined the impact of integrating a video clip on comparing sets into mathematics instruction for Grade 1 pupils. The use of multimedia aimed to foster greater engagement and enhance the learners' conceptual understanding through interactive and visually supported learning. The primary objective was to evaluate whether this instructional tool effectively improved pupils' abilities in counting, numeracy, problem-solving, and creative thinking. By focusing on the effectiveness of video-assisted instruction, the study contributes to the growing body of research on technology-enhanced learning in early mathematics education. The study adopted a qualitative research design employing a causal-comparative approach, which enabled the analysis of existing differences or relationships between variables without manipulating any conditions. The participants were Grade 1 pupils from San Bartolome Elementary School, selected through purposive sampling to ensure alignment with the study's objectives. To measure the development of mathematics skills, the researcher designed a 20-item assessment tool grounded in an extensive review of relevant literature and prior studies. This ensured that the test items were both contextually appropriate and aligned with the intended learning competencies. The results indicated that the use of the comparing sets video clip was highly effective in enhancing students' abilities to solve mathematical problems, improve numeracy, and foster critical thinking. Statistical analysis showed a significant difference between pre-test and post-test scores (p -value $< .00001$) after the video clip was introduced to the students in Grade 1 – Section Daisy and Santan. In light of the findings, the study recommends enhancing teacher-student communication and fostering collaborative learning to create a more engaging classroom environment. Improving the accessibility of instructional materials is also crucial to support active participation and learning continuity. To sustain students' interest and enthusiasm, it is further suggested that educational video clips be consistently integrated into lessons, especially when teaching basic mathematical skills.

RECOMMENDED CITATION

Ayoc, P., Dela Cruz, F. M., Floria, J., Ramos, N., & Tapar, M. A. (2025). Effectiveness of Comparing Set Video Clip in Developing Mathematics Skills in Grade 1 Pupils. *Ascendens Asia Singapore – Bestlink College of the Philippines Journal of Multidisciplinary Research Abstracts*, 7(5), 135.