

# Analysing the Skill of Writing a Scientific Article as a Written Communication Skill of Prospective Elementary School Teacher on Learning Mathematics

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## DOI:

<https://doi.org/10.36941/jesr-2021-0108>

## Keywords:

written communication skill, scientific article, reflective journal

## Abstract

One of the skills developed in the 21st century learning framework is the development of written communication skills for students in higher education. Written communication is the ability to express ideas in written form with the aim of expressing ideas, solving problems, improving reasoning skills, understanding scientific phenomena and constructing the phenomena being studied. One way to make it easier for students to communicate their ideas in writing is to use reflective journals. This pre-experiment research aims to identify the written communication skill of prospective teachers of the elementary school in compiling scientific articles through a reflective journal. The research used one group pretest-posttest design which involved 20 prospective teachers of elementary school. The instrument used was a task sheet of scientific article writing. Data were processed using descriptive and inferential statistical analysis. The result showed the average value of prospective teachers' written communication skills before using a reflective journal is 52.50, and after using it is 80.56. The gain index is 0.59, which describes the score improvement of students' written communication skills in the medium category. The value of significance obtained is  $0,000 < 0,05$ . This indicated that there is an influence of the use of reflective journals in enhancing the student's written communication skills.