

**PENGARUH MODEL PEMBELAJARAN *PANCA PRAMANA* TERHADAP
LITERASI SAINS DAN BERNALAR KRITIS SISWA KELAS IV SD DI
DESA APUAN**

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ABSTRAK

Penelitian ini bertujuan untuk menguji: (1) pengaruh model pembelajaran *Panca Pramana* terhadap kemampuan literasi sains siswa kelas IV SD di Desa Apuan, (2) pengaruh model pembelajaran *Panca Pramana* terhadap kemampuan bernalar kritis siswa kelas IV SD di Desa Apuan, dan (3) pengaruh secara simultan model pembelajaran *Panca Pramana* terhadap kemampuan literasi sains dan bernalar kritis siswa kelas IV SD di Desa Apuan. Jenis penelitian ini adalah penelitian eksperimen semu dengan rancangan *Nonequivalent Pre-Test Post Test Control Group Design*. Populasi penelitian ini adalah seluruh siswa SD di Desa Apuan, yang terdiri atas SD Negeri 1 Apuan, SD Negeri 2 Apuan, dan SD Negeri 3 Apuan dengan jumlah siswa 34 orang. Penentuan sampel penelitian menggunakan teknik *Cluster Random Sampling*, sehingga diperoleh kelas IV SD Negeri 2 Apuan sebagai kelas eksperimen dan kelas IV SD Negeri 3 Apuan sebagai kelas kontrol. Data yang dikumpulkan dengan tes literasi sains dan bernalar kritis. Data dianalisis menggunakan Manova satu jalur dengan bantuan program *SPSS 26.0 for Windows* pada taraf signifikansi 5%. Hasil penelitian menunjukkan bahwa (1) terdapat perbedaan kemampuan literasi sains antara siswa yang belajar dengan model pembelajaran *Panca Pramana* dan tanpa model pembelajaran *Panca Pramana* pada siswa kelas IV SD di Desa Apuan, (2) terdapat perbedaan kemampuan bernalar kritis antara siswa yang belajar dengan model pembelajaran *Panca Pramana* dan tanpa model pembelajaran *Panca Pramana* pada siswa kelas IV SD di Desa Apuan, dan (3) terdapat perbedaan kemampuan literasi sains dan kemampuan bernalar kritis secara bersama-sama antara siswa yang belajar dengan model pembelajaran *Panca Pramana* dan tanpa model pembelajaran *Panca Pramana* pada siswa kelas IV SD di Desa Apuan.

Kata-kata kunci: model pembelajaran *Panca Pramana*, literasi sains, bernalar kritis.

***THE EFFECT OF PANCA PRAMANA LEARNING MODEL ON SCIENCE
LITERACY AND CRITICAL REASONING OF GRADE IV ELEMENTARY
SCHOOL STUDENTS IN APUAN VILLAGE***

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ABSTRACT

This study aims to test: (1) the effect of the Panca Pramana learning model on the science literacy skills of grade IV elementary school students in Apuan Village, (2) the effect of the Panca Pramana learning model on the critical reasoning skills of grade IV elementary school students in Apuan Village, and (3) the simultaneous effect of the Panca Pramana learning model on the science literacy and critical reasoning skills of grade IV elementary school students in Apuan Village. This type of research was a quasi-experimental research with a Nonequivalent Pre-Test Post Test Control Group Design. The population of this study was all elementary school students in Apuan Village, consisting of Apuan 1 Elementary School, Apuan 2 Elementary School, and Apuan 3 Elementary School with a total of 34 students. The determination of the research sample used the Cluster Random Sampling technique, so that grade IV of Apuan 2 Elementary School was obtained as the experimental class and grade IV of Apuan 3 Elementary School as the control class. Data were collected with science literacy and critical reasoning tests. Data were analyzed using one-way Manova with the help of the SPSS 26.0 for Windows program at a significance level of 5%. The results of the study showed that (1) there were differences in scientific literacy skills between students who studied with the Panca Pramana learning model and the conventional learning model in grade IV elementary school students in Apuan Village, (2) there were differences in critical reasoning skills between students who studied with the Panca Pramana learning model and the conventional learning model in grade IV elementary school students in Apuan Village, and (3) there were differences in scientific literacy skills and critical reasoning skills simultaneously between students who studied with the Panca Pramana learning model and the conventional learning model in grade IV elementary school students in Apuan Village.

Keywords: Panca Pramana learning model, scientific literacy, critical reasoning.