

# CREATIVITY MEASUREMENT OF SCIENTIFIC METHODS OF BIOLOGICAL ASPECTS IN NATURAL SCIENCE SUBJECTS IN ELEMENTARY SCHOOLS IN YOGYAKARTA SPECIAL PROVINCE

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## ABSTRACT

This research aims at developing an instrument to measure the creativity of scientific methods on the phenomena of life in Natural Science Subjects in Elementary School and reporting the results of measurements using elementary school samples. The research used the test development method, which include constructing the test and presenting the test report. The test construction activities consist of formulating a blue print of scientific method of Natural Science subjects for elementary schools, developing divergent pattern instruments, and performing creative scoring using the principle of fluency, flexibility and originality. The tests were administered on a sample of elementary school students taken randomly based on the test device being completed, i.e test device I and II. The test is subjected to a sample of a hypothetical / theoretical population. The hypothetical population in this research is defined as the population of public elementary school students in Yogyakarta Special Province which are categorized as potential, less potential and not potential elementary schools. The schools are from 4 UPTs / districts in Yogyakarta Special Province, namely UPT southern of Yogyakarta in Yogyakarta City, UPT Bantul in Bantul Regency, Kalibawang District in Kulonprogo Regency, and UPTD Panggang in Gunungkidul Regency, consisting of grade 1 to VI. The results show that all the items are fitted with 1-PL model and test reliability is 0.72. The test results indicate differences the score among schools and regions.

Kata Kunci: *scientific methods, life phenomenon, creativity*