

DEVELOPMENT OF INSTRUMENTS ANALYSIS OF THE ACHIEVEMENT OF PROCESS AND COGNITIVE PRODUCTS IN BIOLOGY GRADE XI STUDENTS IN INDONESIA

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ABSTRACT

The purpose of this second year this research PPs-grant is to find out the profile of the achievement of process dimensions and cognitive biology products in high school class XI students in Indonesia through Biology subjects. This research is a survey research, by collecting data through test techniques and questionnaire techniques (inventory) for high school students of class XI in Indonesia. Samples containing 1827 students spread across 30 high schools in five (5) regions of Indonesia, namely Yogyakarta, East Java, Lampung, NTB, and NTT were selected through Stratified sampling. Data collected and validated were analyzed descriptively and inferentially. Descriptive analysis for general profile description achievement of cognitive abilities in the process dimensions and products of high school students, and to determine the distribution of capabilities per aspect of the cognitive abilities of processes and products. Inferential analysis is carried out to determine the differences in student achievement in schools with several related variables, including the level of favorability of the school, the location of the school, and the type of curriculum used. The results of the study showed that the achievement scores of cognitive abilities in the process dimensions and products of high school students averaged 43.96 standard deviations 10.76. This achievement achievement score was significantly influenced by the level of favorability of the school, the location of the school, and the type of curriculum used ($p < 0.05$)

Kata Kunci: *cognitive process dimensions and products, measurement instruments*