

## ABSTRAK

**Dewi, H.V. 2017. Identifikasi Proses Kognitif Siswa SMA Kelas XI Dalam Metode Demonstrasi Tentang Hukum Archimedes. Studi Kasus di SMA Negeri 1 Prambanan. Program Studi Pendidikan Fisika. Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam. Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.**

Penelitian ini memiliki tujuan untuk mendeskripsikan proses kognitif siswa SMA dalam metode demonstrasi untuk memahami materi Archimedes dan mendeskripsikan proses penerapan metode demonstrasi saat mengidentifikasi proses kognitif siswa. Pada penelitian ini memiliki lima responden yang dijadikan subyek penelitian. Responden yang digunakan adalah siswa SMA kelas XI IPA 2 di SMA N 1 Prambanan. Penelitian dilakukan selama 4 JP (jam pelajaran) dengan rincian 2 JP waktu siswa mengikuti pembelajaran dengan metode demonstrasi dan mengerjakan soal quisioner, sedangkan 2 JP lainnya untuk wawancara setiap responden. Penelitian ini merupakan model pembelajaran berbasis masalah. Masalah muncul ketika peneliti melakukan demonstrasi dan siswa diminta menjawab soal berkaitan dengan demonstrasi tersebut. Data diperoleh dari jawaban observasi, quisioner, dan wawancara.

Hasil dari penelitian ini (1) teridentifikasi responden memiliki kemampuan responden masih dalam tingkat LOTS (*low order thinking skill*) meliputi mengingat dan memahami, sedangkan HOTS (*high order thinking skill*) yang meliputi mengaplikasikan dan menganalisis (2) teridentifikasi proses kognitif dalam metode demonstrasi terjadi ketika peneliti melakukan demonstrasi serta saat mengerjakan soal quisioner.

Kata kunci : Proses kognitif, Demonstrasi, Taxonomi Bloom hasil revisi

## ABSTRACT

**Dewi, H.V. 2017. Identification of Cognitive Process of High School Students of Class XI In Demonstration Methods About Law Archimedes. Case Study at SMA Negeri 1 Prambanan. Physics Education Study Program. Department of Mathematics and Sciences Education. Faculty of Teacher Training and Education. Sanata Dharma University of Yogyakarta.**

This study aims to describe the cognitive process of high school students in demonstration methods in understanding Archimedes material and describe the process of applying demonstration methods in identifying students' cognitive processes. In this study has five respondents who were subjected to research. Respondents used were high school students of class XI IPA 2 in SMA N 1 Prambanan. The study was conducted for 4 hours of lesson with 2 hours of lesson details as the students followed the lesson with the demonstration method and did the quisioner question, while the other 2 hours of lesson for each interview. This research was a problem-based learning model. Problems arise when researchers conduct demonstrations and students were asked to answer questions related to the demonstration. Data were obtained from observation, quisioner, and interview answers.

The results of this study (1) identified respondents have the ability of respondents are still in the level of LOTS (low order thinking skills) include remembering and understanding, while HOTS (high order thinking skill) which includes applying and analyzing (2) identified cognitive processes in the demonstration method occurs When researchers conduct demonstrations and while working on quisionary questions.

**Keywords:** cognitive process, demonstration, Taxonomy Bloom revision result