

ABSTRAK

SKEMA KOGNITIF SISWA SMA TENTANG GAYA GESEK DAN PERUBAHANNYA MELALUI ASIMILASI DAN AKOMODASI

Anastasia Susi Murwaningsih. 2016 "Skema Kognitif Siswa SMA Tentang Gaya Gesek dan Perubahannya Melalui Asimilasi dan Akomodasi". Skripsi. Program Studi Pendidikan Fisika. Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam. Fakultas Keguruan dan Ilmu Pendidikan. Universitas Sanata Dharma, Yogyakarta.

Penelitian ini bertujuan untuk menunjukkan adanya proses perubahan skema kognitif siswa melalui asimilasi dan akomodasi pada materi gaya gesek. Partisipan berjumlah lima orang siswa SMA kelas X di Yogyakarta. Penelitian ini bersifat kualitatif. Penelitian dilaksanakan pada bulan Februari-April 2016. Data diperoleh menggunakan tes konseptual dan wawancara.

Tes konseptual digunakan untuk memperoleh skema kognitif awal siswa. Skema awal tersebut dikonfirmasi lagi ketika wawancara. Ketika wawancara peneliti memberikan pertanyaan konfirmasi, contoh maupun ilustrasi untuk membantu siswa mengembangkan atau memodifikasi pemahamannya. Proses asimilasi dan akomodasi ditunjukkan dengan kutipan dialog dari analisis transkrip wawancara

Kata kunci: konstruktivisme, skema kognitif, asimilasi, akomodasi

ABSTRACT

SENIOR HIGH SCHOOL STUDENT'S COGNITIVE SCHEME ABOUT FRICTION FORCE AND CHANGES IN ASSIMILATION AND ACCOMMODATION

Anastasia Susi Murwaningsih. 2016 "Senior High School Student's Cognitive Scheme About Friction Force and Changes in Assimilation and Accommodation". Thesis. Physics Education Study Program. Department of Mathematics and Science Education. Faculty of Teachers Training and Education. Sanata Dharma University of Yogyakarta.

This research was aiming at revealing the change of student's cognitive scheme through assimilation and accommodation about friction force. The participants of this research are five students of senior high school X class in Yogyakarta. The nature of the research was a qualitative inquiry. The research was held on February to April 2016. The data obtaining is achieved by conceptual test and interview.

The initial scheme was confirmed again in interview section. In the interview, the researcher asked confirmation questions, examples, and illustrations to help the students in developing or modifying their understanding. The assimilation and accommodation process were shown in quotations from interview transcript analysis.

Keywords: *constructivism, cognitive scheme, assimilation, accommodation*