

ABSTRAK

Herni Naema Kause. 2017. *Peningkatan Pemahaman Siswa Tentang Suhu Dan Kalor Menggunakan Metode Eksperimen Terbimbing (Sebuah studi Kasus di SMA N 11 Yogyakarta)*. 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 meningkatkan pemahaman siswa pada materi suhu dan kalor dengan menggunakan metode Eksperimen terbimbing dan mendeskripsikan perubahan pemahaman siswa.

Penelitian dilaksanakan pada bulan April-Mei 2017 di SMA N 11 Yogyakarta. Subyek penelitian siswa kelas X berjumlah empat orang. Penelitian dilakukan setelah jam pelajaran selesai. Pengumpulan data menggunakan pre-test, post-test dan wawancara. Wawancara dilakukan sebelum pembelajaran dan sesudah pembelajaran. Treatmen yang digunakan adalah pembelajaran menggunakan metode eksperimen terbimbing.

Hasil penelitian menunjukkan bahwa keempat siswa memiliki pemahaman awal yang belum lengkap dan terdapat miskonsepsi. Perubahan pemahaman siswa dilihat mulai dari eksperimen sampai siswa mengerjakan soal dalam lembar kerja siswa secara individu. Dalam pembelajaran menggunakan metode eksperimen setiap siswa mengalami peningkatan pemahaman dalam memahami materi suhu dan kalor.

Kata kunci: *Metode eksperimen terbimbing, pemahaman siswa, perubahan pemahaman, suhu dan kalor.*

ABSTRACT

Herni Naema Kause. 2017. *Improving Students' Understanding About Temperature and Heat Using Guided Experiment Method (A Case Study at SMA N 11 Yogyakarta)*. Thesis. Physics Education Study Program. Department of Mathematics and Science Education. Faculty of Teachers Training and Education. Sanata Dharma University of Yogyakarta.

The purpose of this research was to improve students' understanding on temperature and heat subject using guided experiment method and describe the change of students' understanding on temperature and heat.

This research was held on April-Mei 2017 at SMA N 11 Yogyakarta. The subjects of research was four high school students class X. This research was conduct after school hour. The data were obtained using pre-test, post-test and interview. The interview was conducted before and after class hour. The treatment was used is learning using guided experiment method.

The result of this experiment showed that four of students had incomplete understanding at the beginning of interviewing and there was misconceptions. The changing of students' understanding observed from the beginning experiment until students as individual answer questions on worksheet. In learning using guided experimental methods every student has increased understanding in understanding the material temperature and heat.

Keywords: *Guided experiment method, students' understanding, the changing of understanding, temperature and heat.*