

ABSTRAK

Reina Aulya Putry. 2023. **PENGARUH MODEL *DISCOVERY LEARNING* BERBANTUAN MEDIA *SMART APPS CREATOR* (SAC) TERHADAP KEMAMPUAN KOGNITIF SISWA PADA MATERI PENGUKURAN**

Penelitian ini dilatarbelakangi oleh kenyataan bahwa siswa memiliki tingkat kemampuan kognitif yang rendah serta membutuhkan suatu model pembelajaran berbantuan media pembelajaran *mobile learning* terkhusus pada materi pengukuran, sehingga siswa dapat memenuhi aspek kognitif dengan baik. Upaya yang dilakukan untuk mengatasi masalah tersebut yaitu dengan model *Discovery Learning* berbantuan media *Smart Apps Creator*. Tujuan dari penelitian ini yaitu untuk mengetahui pengaruh model *Discovery Learning* berbantuan *Smart Apps Creator* menggunakan *mobile learning* terhadap kemampuan kognitif siswa pada materi pengukuran. Penelitian ini dilakukan di kelas X MIPA SMA Negeri 2 Ciamis. Populasi penelitian berjumlah 252 siswa dan sampelnya adalah 1 kelas eksperimen dengan jumlah 36 siswa dan 1 kelas kontrol dengan jumlah 36 siswa. Teknik pengambilan sampel dilakukan secara *purposive sampling*. Metode penelitian yang digunakan adalah *quasi experiment* dengan *design* penelitian *Posttest-Only control group design*. Teknik pengumpulan data menggunakan instrumen tes. Tes yang dilakukan berupa soal *posttest* sebanyak 14 soal *two tier multiple choice* berdasarkan indikator C1-C3. Setelah melakukan uji hipotesis menggunakan uji t pada taraf signifikansi ($\alpha = 0,05$) membuktikan bahwa setelah diterapkannya model *Discovery Learning* diperoleh $t_{hitung} > t_{tabel}$ maka H_0 ditolak. Dapat disimpulkan pada taraf kepercayaan 99,5% ada pengaruh model pembelajaran *Discovery Learning* terhadap kemampuan kognitif siswa pada materi pengukuran di kelas 10 SMA Negeri 2 Ciamis tahun ajaran 2023/2024.

Kata kunci: *discovery learning*, kemampuan kognitif, pengukuran, *smart apps creator*

ABSTRACT

*Reina Aulya Putry. 2023. **THE EFFECT OF DISCOVERY LEARNING MODEL ASSISTED BY SMART APPS CREATOR (SAC) MEDIA ON STUDENTS' COGNITIVE ABILITIES ON MEASUREMENT MATERIAL***

This study is motivated by the fact that students have a low level of cognitive ability and need a learning model assisted by mobile learning media specifically on measurement material, so that students can fulfill cognitive aspects well. Efforts made to overcome these problems are with the Discovery Learning model assisted by Smart Apps Creator media. The purpose of this study was to determine the effect of the Discovery Learning model assisted by Smart Apps Creator using mobile learning on students' cognitive abilities on measurement material. This research was conducted in class X MIPA SMA Negeri 2 Ciamis. The study population amounted to 252 students and the samples were 1 experimental class and 1 control class. The sampling technique was done by purposive sampling. The research method used was quasi experiment with Posttest-Only control group design. Data collection techniques using test instruments. The test was conducted in the form of a posttest question of 14 two tier multiple choice questions based on C1-C3 indicators. After conducting a hypothesis test using the t test at the significance level ($\alpha = 0.05$) proves that after the application of the Discovery Learning model obtained $t_{hitung} > t_{tabel}$ then H_0 is rejected. This means that it can be concluded that at the 99,5% confidence level there is an effect of the Discovery Learning learning model on students' cognitive abilities on measurement material in class 10 of SMA Negeri 2 Ciamis in the 2023/2024 school year.

Keywords: cognitive ability, discovery learning, measurement, smart apps creator