

ABSTRAK

Penelitian ini dilakukan guna mengetahui pengaruh model pembelajaran *project based learning* berbantuan *W3Schools* terhadap hasil belajar siswa pada materi PBO (khususnya polimorfisme), beserta aktivitas keterlaksanaan pembelajaran dan respon siswanya. Penelitian ini menggunakan metode kuantitatif dengan model penelitian eksperimen. Populasi yang digunakan sebanyak 72 siswa kelas X RPL di SMKN 10 Surabaya, dimana 35 siswa kelas X RPL 1 sebagai kelas eksperimen dan 37 siswa kelas X RPL 2 sebagai kelas kontrol. Penelitian ini menggunakan *pretest*, *posttest*, wawancara, observasi, serta angket untuk pengumpulan data. Berdasarkan hasil penelitian diperoleh, (1) Terdapat pengaruh model pembelajaran *project based learning* berbantuan *W3Schools* dengan hasil belajar siswa (ranah kognitif) didasarkan pada uji signifikan yang diperoleh hasil $t_{hitung} > t_{tabel}$ atau $2,477 > 1,690$, sehingga H_a diterima. (2) Aktivitas pelaksanaan pembelajaran menggunakan model *project based learning* berbantuan *W3Schools* menunjukkan hasil baik. Aktivitas guru memperoleh presentase 87,99% dengan kategori “sangat baik” dan aktivitas siswa memperoleh presentase 84,79% dengan kategori “sangat baik”. (3) Respon siswa pada pembelajaran dengan model *project based learning* berbantuan *W3Schools* memperoleh presentase 83,14% berkategori sangat baik dari siswa. Sehingga dapat disimpulkan bahwa terdapat pengaruh model pembelajaran *project based learning* berbantuan *W3Schools* terhadap hasil belajar siswa pada mata pelajaran PBO kelas X RPL di SMKN 10 Surabaya.

Kata Kunci : hasil belajar, *project based learning*, *W3Schools*, PBO

ABSTRACT

This study aims to determine the effect of project-based learning model assisted by W3Schools on student learning outcomes on PBO material (especially polymorphism), along with learning implementation activities and student responses. This research uses quantitative methods with experimental research models. The population used was 72 students of class X RPL at SMKN 10 Surabaya, where 35 students of class X RPL 1 as the experimental class and 37 students of class X RPL 2 as the control class. This study used pretest, posttest, interview, observation, and questionnaire for data collection. Based on the results of the study obtained, (1) There is an effect of project-based learning model assisted by W3Schools with student learning outcomes (cognitive domain) based on the significant test obtained the results of $t_{count} > t_{table}$ or $2,477 > 1,690$, so H_a is accepted. (2) The activity of implementing learning implementation using project-based learning model assisted by W3Schools shows good results. Teacher activities obtained a percentage of 87,99% in the "very good" category and student activities obtained a percentage of 84.79% in the "very good" category. (3) Student responses to learning with the project-based learning model assisted by W3Schools obtained a percentage of 83.14% in the very good category from students. So it can be concluded that there is an effect of the project-based learning model assisted by W3Schools on student learning outcomes in PBO class X RPL subjects at SMKN 10 Surabaya.

Keywords: *learning outcomes, project based learning, W3Schools, PBO*