

ABSTRAK

Riyanti. 2013. Penerapan Model Pembelajaran Berbasis Proyek (*Project-Based Learning*) untuk Meningkatkan Kemampuan Penalaran Adaptif Siswa SMP.

Penelitian dilatarbelakangi oleh rendahnya kemampuan penalaran adaptif siswa. Tujuan penelitian ini adalah: 1) Mengetahui apakah siswa yang mendapat pembelajaran matematika dengan model pembelajaran berbasis proyek (*Project-Based Learning*) pencapaian kemampuan penalaran adaptifnya lebih baik daripada siswa yang mendapat pembelajaran matematika dengan model pembelajaran konvensional; 2) Mengetahui apakah siswa yang mendapat pembelajaran matematika dengan model pembelajaran berbasis proyek (*Project-Based Learning*) peningkatan kemampuan penalaran adaptifnya lebih baik daripada siswa yang mendapat pembelajaran matematika dengan model pembelajaran konvensional; 3) Mengetahui apakah siswa menunjukkan sikap yang positif terhadap penerapan pembelajaran matematika menggunakan model pembelajaran berbasis proyek (*Project-Based Learning*). Penelitian ini menggunakan metode eksperimen desain “*pretest posttest control group design*”, dengan populasi kelas VIII SMP Negeri 1 Cibalong, Garut. Indikator kemampuan penalaran adaptif yang diukur dalam penelitian ini adalah 1) kemampuan mengajukan dugaan; 2) memberikan alasan mengenai jawaban yang diberikan; 3) menarik kesimpulan dari suatu pernyataan; 4) memeriksa kesahihan suatu argumen; 5) menemukan pola dari suatu masalah matematika. Hasil penelitian menunjukkan bahwa: 1) Siswa yang mendapat pembelajaran matematika dengan model pembelajaran berbasis proyek (*Project-Based Learning*) pencapaian kemampuan penalaran adaptifnya lebih baik daripada siswa yang mendapat pembelajaran matematika dengan model pembelajaran konvensional; 2) Siswa yang mendapat pembelajaran matematika dengan model pembelajaran berbasis proyek (*Project-Based Learning*) peningkatan kemampuan penalaran adaptifnya lebih baik daripada siswa yang mendapat pembelajaran matematika dengan model pembelajaran konvensional; 3) Siswa menunjukkan sikap yang positif terhadap penerapan pembelajaran matematika menggunakan model pembelajaran berbasis proyek (*Project-Based Learning*).

Kata kunci: Model pembelajaran berbasis proyek (*Project-Based Learning*), Penalaran adaptif

ABSTRACT

Riyanti. 2013. Application of Project-Based Learning Model (Project-Based Learning) To Improve Adaptive Reasoning Ability Junior High School Students.

The research is motivated by low adaptive reasoning abilities of students. The purpose of this study were: 1) determine whether students who received mathematics instruction with project-based learning model (Project-Based Learning) achievement of the adaptive reasoning skills are better than students who received mathematics learning with conventional learning model, 2) Knowing whether a student is learning mathematics with project-based learning model (Project-Based Learning) to improve adaptive reasoning better than students who received mathematics learning with conventional learning models; 3) Knowing whether students showed a positive attitude towards the application of mathematical learning using project-based learning model (Project- Based Learning). This study uses experimental design "pretest posttest control group design", with a population of eighth grade SMP Negeri 1 Cibalong, Garut. Indicators of adaptive reasoning abilities as measured in this study are 1) the ability to submit allegations; 2) give reasons for the answers given; 3) draw conclusions from a statement; 4) examine the validity of an argument; 5) found the pattern of a mathematical problem. The results showed that: 1) Students who receive mathematics instruction with project-based learning model (Project-Based Learning) achieving adaptive reasoning skills are better than students who received mathematics learning with conventional learning models; 2) Students who received the learning of mathematics with a teaching model based project (Project-Based Learning) to improve adaptive reasoning better than students who received mathematics learning with conventional learning models; 3) Students showed positive attitudes toward math learning application using project-based learning model (Project-Based Learning).

Keywords: Project-Based Learning Model (Project-Based Learning), Adaptive Reasoning



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