

ABSTRACT

APPLICATION OF THE PROBLEM BASED LEARNING LEARNING (PBL) MODEL TO IMPROVE THE CRITICAL THINKING ABILITY OF CLASS IV PRIMARY STUDENTS ON THE WATER CYCLE MATERIAL

This research began with low critical thinking skills at elementary school level, low levels of science education which was motivated by a lack of varied learning models, a lack of fun learning activities, inadequate learning media, and inadequate supporting facilities and infrastructure. The purpose of this research is to find out 1) whether there is an increase in the use of the Problem Based Learning model on students' critical thinking abilities 2) to find out students' responses in using the Problem Based Learning model on students' critical thinking abilities 3) to find out difficulties teachers in the learning process use the Problem Based Learning model for students' critical thinking abilities. To overcome the low critical thinking skills in science lessons, researchers suggest implementing the Problem Based Learning model. The research method used is mixed methods with a sequential explanatory design. The quantitative approach uses an experimental method with a one group pretest and posttest design to determine whether there is an increase in critical thinking skills using the Problem Based Learning model. Qualitative method to find out how students respond and teachers' difficulties with the Problem Based Learning model on critical thinking skills. The sample in this study consisted of 30 grade IV students. Data was collected through pretest and posttest and the research results showed an increase in critical thinking skills. Analysis using the Wilcoxon signed ranks test showed significant differences in mean scores. Apart from that, student response questionnaire data and the minimal obstacles experienced by teachers when implementing the Problem Based Learning model support the conclusion that this method is effective in improving critical thinking skills.

Keywords: Critical Thingking Ability, Problem Based Learning

ABSTRAK

PENERAPAN MODEL PEMBELAJARAN *PROBLEM BASED LEARNING* (PBL) UNTUK MENINGKATKAN KEMAMPUAN BERPIKIR KRITIS SISWA KELAS IV SD PADA MATERI SIKLUS AIR

Penelitian ini berawal dari rendahnya kemampuan berpikir kritis pada tingkat sekolah dasar, rendahnya pendidikan sains yang dilatar belakangi oleh kurangnya model pembelajaran yang bervariasi, kurangnya kegiatan belajar yang menyenangkan, media pembelajran yang kurang memadai, serta sarana dan prasarana yang kurang mendukung. Tujuan penelitian ini untuk mengetahui 1) apakah terdapat peningkatan dalam penggunaan dalam model *Problem Based Learning* terhadap kemampuan berpikir kritis siswa 2) untuk mengetahui respon siswa dalam penggunaan model *Problem Based Learning* terhadap kemampuan berpikir kritis siswa 3) untuk mengetahui kesulitan guru dalam proses pembelajaran menggunakan model *Problem Based Learning* terhadap kemampuan berpikir kritis siswa. Untuk mengatasi rendahnya kemampuan berpikir kritis pada pelajaran IPA, peneliti menyarankan adanya penerapan model *Problem Based Learning*. Metode penelitian yang digunakan adalah *mixed methods* dengan desain *explanatory sequential*. Pendekatan kuantitatif menggunakan metode eksperimen dengan desain *one group pretest* dan *posttest* untuk mengetahui adanya peningkatan pada kemampuan berpikir kritis menggunakan model *Problem Based Learning*. Metode kualitatif untuk mengetahui bagaimana respon siswa serta kesulitan guru terhadap model *Problem Based Learning* pada kemampuan berpikir kritis. Sampel pada penelitian ini terdiri dari 30 siswa kelas IV. Data dikumpulkan melalui *pretest* dan *posttest* dan hasil penelitian menunjukkan peningkatan pada kemampuan berpikir kritis. Analisis menggunakan uji *Wilcoxon signed ranks* menunjukkan perbedaan rata – rata skor yang signifikan. Selain itu, data angket respon siswa dan minimnya kendala yang dialami guru saat menerapkan model *Problem Based Learning* mendukung kesimpulan bahwa metode ini efektif dalam meningkatkan kemampuan berpikir kritis.

Kata Kunci: Kemampuan Berpikir Kritis, Model *Problem Based Learning*