

## ABSTRAK

Devi, Silviana. 2021. *Penerapan Model Pembelajaran Pjbl (Project Based Learning) Berbasis Stem Dalam Materi Bangun Ruang Matematika Kelas 5 Sd. Program Studi Pendidikan Guru Sekolah Dasar*. Fakultas Pedagogi dan Psikologi. Universitas PGRI Adi Buana Surabaya. Pembimbing (1) Apri Irianto, S.H., M.Pd. Pembimbing (2) Susi Hermin Rusminati, S.Pd., M.Pd

**Kata Kunci:** *Model Pembelajaran Pjbl, STEM, Bangun Ruang, Matematika*

Dalam penelitian ini dilatarbelakangi oleh kenyataan bahwa masih adanya siswa yang enggan dalam menyampaikan pendapat dan tidak dapat mengidentifikasi faktor-faktor masalah dalam materi pembelajaran, sehingga pembelajaran relative monoton. Sebagai suatu kegiatan pembelajaran yang sadar akan tujuan pembelajaran, maka melalui penerapan model pembelajaran Problem Based Learning (PjBL) Berbasis STEM diharapkan dapat menumbuhkan kesadaran diri dan melatih kemampuan siswa mengenai Technology, Mathematics, Science, Engineering.

Penelitian ini termasuk penelitian kuantitatif deskriptif. Populasi yang digunakan adalah kelas 5 A, 5 B, 5 C dan 5 D SD Hangtuah X Juanda. Pengambilan sample menggunakan teknik *cluster random sampling*. Sampel yang diambil yaitu kelas 5 B. Teknik pengumpulan data dalam penelitian ini adalah observasi dan respon. Teknik analisis data dalam penelitian ini menggunakan statistic deskriptif persentase.

Berdasarkan hasil Analisis data penelitian, diketahui bahwa aktivitas guru, aktivitas siswa, dan respon siswa dalam penerapan model pembelajaran Problem Based Learning (PjBL) Berbasis STEM berkategori sangat baik, skor aktivitas guru 97,72, skor aktivitas siswa 90 dan respon siswa sangat setuju dengan adanya penerapan model pembelajaran Problem Based Learning (PjBL) Berbasis STEM. Berdasarkan uraian tersebut dapat disimpulkan bahwa aktivitas guru dan siswa dalam penerapan model pembelajaran Problem Based Learning (PjBL) Berbasis STEM sangat baik dan dapat memberikan respon siswa dengan sangat setuju pada siswa kelas 5 B SD Hang Tuah X Juanda.

## ABSTRACT

*Devi, Silviana. 2021. Application of the Pjbl Learning Model (Project Based Learning) based on Stem in the Materials of Building a Mathematics Room for Grade 5 Elementary School. Elementary School Teacher Education Study Program. Faculty of Pedagogy and Psychology. PGRI Adi Buana University, Surabaya. Supervisor (1) Apri Irianto, S.H., M.Pd. Supervisor (2) Susi Hermin Rusminati, S.Pd., M.Pd*

*Keywords: Pjbl Learning Model, STEM, Building Space, Mathematics*

*This research is motivated by the fact that there are still students who are reluctant to express opinions and cannot identify the problem factors in the learning material, so that learning is relatively monotonous. As a learning activity that is aware of learning objectives, through the application of the STEM-Based Problem Based Learning (PjBL) learning model, it is hoped that it can foster self-awareness and train students' abilities in Technology, Mathematics, Science, Engineering.*

*This research includes descriptive quantitative research. The population used is grade 5 A, 5 B, 5 C and 5 D SD Hangtuh X Juanda. Sampling using cluster random sampling technique. The sample taken is class 5 B. Data collection techniques in this study are observation and response. The data analysis technique in this study uses descriptive statistics of percentages.*

*Based on the results of research data analysis, it is known that teacher activities, student activities, and student responses in the application of the STEM-based Problem Based Learning (PjBL) learning model are categorized as very good, teacher activity scores are 97.72, student activity scores are 90 and student responses strongly agree with the application of the STEM-Based Problem Based Learning (PjBL) learning model. Based on this description, it can be concluded that the activities of teachers and students in the application of the STEM-Based Problem Based Learning (PjBL) learning model are very good and can provide student responses to strongly agree on the 5th grade students of SD Hang Tuah X Juanda.*