

Roissatul Umah. 2024. *Penerapan Model Pembelajaran Problem Based Learning Berbantuan Diagram Vee untuk Meningkatkan Keterampilan Berpikir Kritis Siswa*. Skripsi, Progam Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Try Hartiningsih.

ABSTRAK

Tujuan penelitian untuk mengetahui perbedaan, peningkatan, keterlaksanaan, dan respons siswa terhadap penerapan model PBL berbantuan diagram Vee untuk meningkatkan keterampilan berpikir kritis siswa. Penelitian menggunakan metode kuantitatif dengan *non equivalent control group design*. Populasi penelitian yaitu semua siswa kelas VIII UPTD SMPN 4 Bangkalan dengan sampel yaitu kelas VIII D sebagai kelas kontrol dan kelas VIII C sebagai kelas eksperimen. Teknik pengambilan sampel yaitu *simple random sampling*. Hasil penelitian menunjukkan 1) Terdapat perbedaan keterampilan berpikir kritis antara kelas eksperimen dan kontrol, dengan hasil uji hipotesis menunjukkan nilai *Asymp. Sig. posttest* yaitu $0,002 < 0,05$, sehingga H_0 ditolak. 2) Terdapat peningkatan berpikir kritis melalui penerapan model PBL berbantuan diagram Vee pada kelas eksperimen dengan rata-rata *N-Gain Score* 0,66 dengan kategori sedang, lebih tinggi dibanding kelas kontrol dengan rata-rata *Gain Score* 0,55 dengan kategori sedang. 2) Keterlaksanaan model PBL berbantuan diagram Vee untuk meningkatkan keterampilan berpikir kritis siswa terlaksana dengan sangat baik dengan rata-rata presentase keterlaksanaan 98,08%. 3) Respons siswa terhadap penerapan model PBL berbantuan diagram Vee untuk meningkatkan keterampilan berpikir kritis siswa berada dalam kategori sangat baik dengan rata-rata presentase respons siswa 80%. Simpulan penelitian ini yaitu penerapan model PBL berbantuan diagram Vee dapat meningkatkan keterampilan berpikir kritis siswa.

Kata Kunci: *Diagram Vee, Keterampilan Berpikir Kritis, Problem Based Learning.*

Roissatul Umah. 2024. *Application of the Problem Based Learning Model Assisted by Vee Diagrams to Improve Students' Critical Thinking Skills*. Thesis, Science Education Study Program, Faculty of Education, University Of Trunojoyo Madura. Supervisor: Try Hartiningsih.

ABSTRACT

The aim of the research is to determine differences, improvements, implementation and student responses to the application of the PBL model assisted by Vee diagrams to improve students' critical thinking skills. The research uses quantitative methods with non-equivalent control group design. The research population was all students of class VIII UPTD SMPN 4 Bangkalan with samples namely class VIII D as the control class and class VIII C as the experimental class. The sampling technique is simple random sampling. The research results show 1) There are differences in critical thinking skills between the experimental and control classes, with the hypothesis test results showing the Asymp value. Sig. posttest is $0.002 < 0.05$, so H_0 is rejected. 2) There is an increase in critical thinking through the application of the PBL model assisted by Vee diagrams in the experimental class with an average N-Gain Score of 0.66 in the medium category, higher than the control class with an average Gain Score of 0.55 in the medium category. 2) The implementation of the PBL model assisted by Vee diagrams to improve students' critical thinking skills was carried out very well with an average implementation percentage of 98.08%. 3) Student responses to the application of the PBL model assisted by Vee diagrams to improve students' critical thinking skills are in the very good category with an average percentage of student responses of 80%. The conclusion of this research is that the application of the PBL model assisted by Vee diagrams can improve students' critical thinking skills.

Keywords: *Vee Diagram, Critical Thinking Skills, Problem Based Learning.*