PERBEDAAN KETERAMPILAN BERPIKIR KRITIS DAN KETERAMPILAN BERKOMUNIKASI ANTARA KELAS BERMODEL PROBLEM BASED LEARNING DENGAN METODE BRAINSTORMING DAN PEMBELAJARAN LANGSUNG DENGAN METODE DISKUSI PADA PEMBELAJARAN IPA

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui: (1) Perbedaan keterampilan berfikir kritis siswa antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi pada pembelajaran IPA; (2) Perbedaan keterampilan berkomunikasi siswa antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi pada pembelajaran IPA; (3) Perbedaan keterampilan berfikir kritis dan keterampilan berkomunikasi siswa antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi pada pembelajaran IPA.

Penelitian ini merupakan penelitian quasi eksperimen dengan desain *non equivalent control group design*. Populasi penelitian adalah kelas VII SMP N 9 Yogyakarta dengan sampel penelitian adalah kelas VII C dan kelas VII D. Teknik sampling dengan *cluster random sampling*. Instrumen pembelajaran berupa silabus, rencana pelaksanaan pembelajaran, dan lembar kegiatan peserta didik. Instrumen pengumpulan data yaitu lembar observasi keterampilan berkomunikasi dan tes keterampilan berfikir kritis. Teknik pengumpulan data adalah observasi dan tes tertulis.Uji validitas soal menggunakan ITEMAN dan SPSS. Teknik analisis data menggunakan uji normalitas, uji homogenitas, dan uji Manova dengan bantuan program SPSS 18.

Hasil penelitian menunjukkan bahwa (1) ada perbedaan keterampilan berfikir kritis antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi dibuktikan dengan nilai Sig. $0,000 < 0,05$; (2) ada perbedaan keterampilan berkomunikasi antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi dibuktikan dengan nilai Sig. $0,000 < 0,05$; (3) ada perbedaan keterampilan berfikir kritis dan berkomunikasi antara kelas yang menggunakan model *Problem Based Learning* dengan metode *Brainstorming* dan Pembelajaran Langsung dengan metode diskusi dibuktikan dengan nilai Sig. $0,000 < 0,05$.

Kata kunci : *Problem Based Learning* (PBL), *brainstorming*, Pembelajaran Langsung, diskusi, keterampilan berfikir kritis, keterampilan berkomunikasi siswa

THE DIFFERENCES OF CRITICAL THINKING SKILLS AND COMMUNICATION SKILL BETWEEN CLASS WHICH IMPLEMENT PROBLEM BASED LEARNING MODEL WITH BRAINSTORMING METHOD AND DIRECT INSTRUCTURE MODEL WITH DISCUSSION METHOD IN SCIENCE LEARNING

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ABSTRACT

The aims of this study were (1) to find the difference of critical thinking skills between a class which implement Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning, (2) to find the difference of communication skills between a class which implement Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning, (3) to find the difference of critical thinking skills and communication skills between a class which implement Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning.

This study was a quasy experiment research with non-equivalent control group design. Populations of experiment were 7th grade students of SMP N 9 Yogyakarta with samples of experiment is class VII C and class VII D. Sampling technique was cluster random sampling. The learning instrument were syllabus, lesson plans, and students worksheet. The instruments data collection were observation sheet of communication skills and written test of critical thinking skills.The validation test was using ITEMAN and SPSS. Data analysis techniques were using normality test, homogenity test, and Manova test using SPSS 18.

The result of research showed that (1) there is a difference between critical thinking skills of Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning was supposed with Sig. Value 0,000 <0,05; (2) there is a difference between communication skills of Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning was supposed with Sig. Value 0,000 <0,05; (3) there is a difference between critical thinking skills and communication skills of Problem Based Learning model with Brainstorming method and Direct Instructure model with Discussion method in Science Learning was supposed with Sig. Value 0,000 <0,05.

Key words: Problem Based Learning (PBL), brainstorming, Direct Learning, discussion, critical thinking skills, communication skills