

**Pengaruh Penerapan Strategi Pembelajaran *Predict Discuss Explain Observe Discuss Explain* (PDEODE) Terhadap Hasil Belajar Kimia Pada Materi Larutan Penyangga**

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***Abstract***

*The aims of this study was to determine the effect of Predict, Discuss, Explain, Observe, Discuss, Explain (PDEODE) learning strategy on learning outcomes in buffer solutions. The study was quasi-experimental with Nonequivalent Control Group Design. This study was conducted at State Senior High School 113 Jakarta in the 2015/2016 academic year. The sampling technique used was cluster random sampling dan obtained science class XI-1 consisted of 36 students as an experimental group used PDEODE learning and science class XI-4 consisted of 36 students as the control group used 5M learning. The data instrument used were the multiple choice test. The data collected were analyzed using descriptive statistics and inferential analysis (t-test). The mean score of experimental group were 81,25 and the mean score of control class were 74,31. The results of this study showed that there were different learning outcome between the experimental group and control group ( $t = 3.835 > t = 1.99$ ). The differences indicate that the application of PDEODE learning strategy positive influence on students' learning outcomes in Buffer Solutions.*

***Keyword*** : *PDEODE Learning, Learning Outcomes, Buffer Solutions*