

## ABSTRAK

### **Natasya Laura Marpaung, NIM 4203331015 (2020). Pengaruh Media Weblog Terhadap Peningkatan Hasil Belajar Dan Respon Yang Menggunakan Model Problem Based Learning Pada Materi Larutan Penyangga Di SMAN 18 Medan**

Penelitian dilaksanakan di SMAN 18 Medan. Tujuan penelitian ini adalah (1) mengetahui apakah ada pengaruh media *Weblog* dengan model *Problem Based Learning* terhadap peningkatan hasil belajar pada materi larutan penyangga; (2) mengetahui respon penggunaan media *Weblog* dengan model *Problem Based Learning* pada materi larutan penyangga; (3) mengetahui korelasi positif dan signifikan antara respon dan peningkatan hasil belajar yang dibelajarkan dengan media weblog dengan model *Problem Based Learning* pada materi larutan penyangga. Teknik pengambilan sampel yaitu *purposive sampling*, kelas pertama dijadikan kelas eksperimen dan kelas kedua dijadikan kelas kontrol. Uji hipotesis dilakukan dengan menggunakan uji t-satu pihak kanan, hasil penelitian pada taraf signifikansi = 0,05 menunjukkan bahwa  $t_{hitung} > t_{tabel}$  ( $6,04 > 1,99$ ) maka  $H_a$  diterima ada pengaruh media *Weblog* dengan model *Problem Based Learning* terhadap peningkatan hasil belajar pada materi larutan penyangga. Peningkatan hasil belajar siswa diperoleh pada kelas eksperimen 78,05% dan kelas kontrol 59,36%. Respon terhadap media weblog dengan model *Problem Based Learning* adalah 75,5% termasuk kategori menarik. Uji korelasi respon terhadap Peningkatan hasil belajar siswa menunjukkan  $r_{hitung} > r_{tabel}$  ( $0,58 > 0,27$ ) maka  $H_a$  diterima terdapat korelasi positif dan signifikan antara respon dengan Peningkatan hasil belajar.

**Kata Kunci :** Peningkatan Hasil Belajar, *Weblog*, model *Problem Based Learning*, *powerpoint* dan respon

## ABSTRACT

**Natasya Laura Marpaung, NIM 4203331015 (2020). The Influence of Weblog Media on Improving Learning Outcomes and Learning Responses Using the Problem Based Learning Model on Buffer Solution Material at SMAN 18 Medan**

The research was carried out at SMAN 18 Medan. The objectives of this research are (1) to find out whether there is an influence of Weblog media with the Problem Based Learning model on improving learning outcomes in buffer solution material; (2) knowing the response to using weblog media with the Problem Based Learning model on buffer solution material; (3) find out whether there is a positive and significant correlation between responses and increased learning outcomes taught using weblog media with the Problem Based Learning model on buffer solution material. The sampling technique was purposive sampling, the first class was used as the experimental class and the second class was used as the control class. Hypothesis testing was carried out using the right-tailed t-test, the research results at the significance level = 0.05 showed that  $t_{count} > t_{table}$  ( $6,04 > 1.99$ ) then  $H_a$  is accepted that there is an influence of weblog media with the Problem Based Learning model on increasing learning outcomes which is higher than increasing student learning outcomes with PowerPoint media using the Problem Based Learning model on buffer solution material. The increase in student learning outcomes obtained in the experimental class is 78,05% and control class 59.36%. The response to weblog media with the Problem Based Learning model was 75.5%, including the interesting category. The correlation test of the response to the increase in student learning outcomes showed  $r_{count} > r_{table}$  ( $0.55 > 0.28$ ), so  $H_a$  there is a positive and significant correlation between the response and the increase learning outcomes.

**Keywords:** Improving learning outcomes, weblog, Problem Based Learning model, powerpoint and response