

Ayu Rahmawati. 2017. *Pengembangan Perangkat Pembelajaran Model Predict Observe Explain (POE) Pada Materi Cahaya*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Mochammad Ahied dan Wiwin Puspita Hadi.

ABSTRAK

Pengembangan bertujuan untuk mengetahui kelayakan perangkat pembelajaran model *Predict Observe Explain* (POE) pada materi cahaya. Metode penelitian yang digunakan adalah pengembangan dengan menggunakan model 4D (*define, design, development, dan disseminate*), tanpa tahap penyebaran. Ujicoba pengembangan dilaksanakan di MTs Ar-Rowiyah Modung Bangkalan dengan populasi 10 siswa kelas VIII pada materi cahaya. Teknik pengambilan sampel menggunakan *simple random sampling*. Pengumpulan data menggunakan validasi para ahli, angket keterbacaan LKS, dan angket respon siswa terhadap LKS. Hasil analisis data diperoleh: (1) perangkat pembelajaran model *Predict Observe Explain* (POE) pada materi cahaya layak digunakan tanpa revisi dengan prosentase validitas 96% dengan kategori sangat valid dan prosentase reliabilitas 98% dengan kategori sangat reliabilitas. (2) Keterbacaan LKS diperoleh prosentase 81% dengan kategori sangat baik. (3) Respon siswa terhadap LKS diperoleh prosentase 81% dengan kategori sangat baik. Berdasarkan hasil tersebut dapat disimpulkan bahwa perangkat pembelajaran model *Predict Observe Explain* (POE) pada materi cahaya layak digunakan oleh MTs Ar-Rowiyah Modung Bangkalan.

Kata Kunci: Model *Predict Observe Explain* (POE), Pengembangan, Perangkat Pembelajaran

Ayu Rahmawati. 2017. *Deveplopmnt of instructional learning Predict Observe Explain (POE) model on the light topic*. Thesis, Natural Science Education Study Program. Education Faculty. University of Trunojoyo Madura. Advisor: Mochammad Ahied and Wiwin Puspita Hadi.

ABSTRACT

The research aimed to observe validity instructional learning predict observe explain (POE) model on light topic. The research used developing method with 4-D model (define, design, develop and disseminate), without phase disseminate. Trial of developing in MTs Ar-Rowiyah Modung Bangkalan with the population of 10 students of 8 grade on light topic. The sampling technique used sampling random LKS. The data collection using validation by validator, LKS readable questionnaire of LKS. Result of data analiysis were obtained: (1) the instructional learning predict observation explain (POE) model on light topic worth used without revision with the percentage of validity 96% with the category of decent used without revision and the percentage of reliability 98% with very good category (2) the readable of LKS obtained percentageof 81% with very good category (3) student's response to LKS obtained percentage of 81% with very good category. Based on the result can be concluded that the instructional learning Predict Observe Explain (POE) model on light topic suitable to use by MTs Ar-Rowiyah Modung Bangkalan

Keywords: *Predict Observe Explain (POE) model, development, instructional learning.*