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ABSTRAK

Penelitian dan pengembangan LKPD ini dilatarbelakangi oleh terbatasnya bahan ajar yang digunakan dalam pembelajaran, tidak pernah dilatihkan keterampilan proses sains. Penelitian ini merupakan penelitian R & D. Tujuan dari penelitian ini adalah untuk mengetahui kevalidan, kepraktisan dan keefektifan LKPD Berbasis *Project Based Learning* (PjBL) Untuk Melatih Keterampilan Proses Sains Materi Perubahan Wujud Benda. Model pengembangan yang digunakan adalah 4D yang terdiri dari tahap *define, design, develop* dan *disseminate*. Subjek yang digunakan dalam penelitian ini adalah 26 peserta didik kelas IV UPTD SDN Socah 2. Proses validasi memperoleh hasil antara lain (1) ahli bahan ajar sebesar 96% dikategorikan sangat valid; (2) ahli desain pembelajaran sebesar 84% dikategorikan sangat valid; (3) ahli bahan ajar memperoleh nilai sebesar 88% dikategorikan sangat valid. Kepraktisan diperoleh dari hasil observasi aktivitas guru dan peserta didik dari pertemuan 1 sampai pertemuan 3, hasil observasi aktivitas guru memperoleh presentase 98%, hasil observasi aktivitas peserta didik memperoleh presentase 97,5% yang dikategorikan sangat praktis. Keefektifan LKPD diperoleh dari hasil pengukuran keterampilan proses sains peserta didik pada pertemuan 3 memperoleh 95,75% dengan kriteria tinggi dan angket respon guru memperoleh 100% dan angket respon peserta didik pada uji kelompok besar dengan memperoleh 99% dalam kategori sangat praktis. Hal tersebut menunjukkan bahwa LKPD Berbasis *Project Based Learning* (PjBL) Untuk Melatih Keterampilan Proses Sains Materi Perubahan Wujud Benda, valid, praktis dan efektif untuk digunakan dalam proses pembelajaran.

Kata Kunci: LKPD, *Project Based Learning*, Keterampilan Proses Sains, Perubahan Wujud Benda

Ayuhanna Purwaningtyas, 2024. *Development of LKPD Based on Project Based Learning (PjBL) to Train Science Process Skills in Material Changes in Form of Objects*, Thesis, Elementary School Teacher Education Study Program, Faculty of Education, Trunojoyo University Madura. Supervisor: Bagus Rahmad Wijaya, S.Pd., M.Pd.

ABSTRACT

The research and development of this LKPD was motivated by the limited teaching materials used in learning, science process skills were never trained. This research is an R & D research. The aim of this research is to determine the validity, practicality and effectiveness of Project Based Learning (PjBL) LKPD for training skills in the material science process of changing the form of objects. The development model used is 4D which consists of define, design, develop and disseminate stages. The subjects used in this research were 26 class IV students at UPTD SDN Socah 2. The validation process obtained results including (1) 96% of teaching materials experts were categorized as very valid; (2) 84% of learning design experts are categorized as very valid; (3) teaching materials experts obtained a score of 88% which was categorized as very valid. Practicality was obtained from the results of observing teacher and student activities from meeting 1 to meeting 3, the results of observing teacher activities obtained a percentage of 98%, the results of observing student activities obtained a percentage of 97.5% which was categorized as very practical. The effectiveness of the LKPD was obtained from the results of measuring students' science process skills at meeting 3 which obtained 95.75% with high criteria and the teacher response questionnaire obtained 100% and the student response questionnaire in the large group test obtained 99% in the very practical category. This shows that the LKPD LKPD is based on Project Based Learning (PjBL) to train science process skills for material changes in the form of objects, valid, practical and effective for use in the learning process.

Keywords: *LKPD, Project Based Learning, Science Proses Skills, Change in Form of Objects*