

ABSTRACT

The Developing of Student Work Sheet (SWS) of Applied *Open-ended Mathematics for Class IV SD*

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Student work sheet is an imperative part of learning materials which mainly functions as a mean of supporting the implementation of lesson plan. SWS is designed and used in learning. This work sheet aims at assisting students to develop concepts, training students to discover and develop their skill process, guiding students to obtain information concerning the concepts learnt through learning systematically, and guiding them to autonomously work individually. Besides, this SWS is used as well as a teacher and students' manuals / handbook in learning. Student Work Sheet which was still used by teachers and students Was fill in, completions and open ended. Therefore, it was estimated that this has not trained students yet to think critically and analytically so that it did not meet the objective of learning of math at primary school. This condition that triggered students demotivated to think critically and analytically in learning, to solve the problem mentioned above, developing an open ended problem SWS for grade IV practically and efficiently.

This study used R and D. This study adopted MCKenny Model which consists of three phase, preliminary research, prototyping phase, dan asesment phase. SWS developed by experts. SWS is tested to see the practicality and effectiveness of this SWS. The practicality is seen from observation, questionnaire while effectiveness is also seen from students activity observation and the result of students' creativing in using applicative-integrative SWS. The finding indicates that open ended problem based math SWS for grade IV at elementary school which has been developed has met the criteria valid, practical and effective and increase student's activity and result of critical thinking in learning.

ABSTRAK

Pengembangan Lembar Kerja Siswa (LKS) Matematika Berbasis Pendekatan *Open-ended* Untuk Kelas IV SD

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Lembar Kerja Siswa (LKS) merupakan bagian dari perangkat pembelajaran yang berperan sebagai sarana pendukung pelaksanaan rencana pembelajaran. LKS dirancang dan digunakan dalam pembelajaran, bertujuan untuk membantu siswa mengembangkan konsep, melatih siswa untuk menemukan dan mengembangkan keterampilan proses, sebagai pedoman guru dan siswa dalam melaksanakan proses pembelajaran, serta membantu siswa dalam memperoleh informasi tentang konsep yang dipelajari melalui proses pembelajaran secara sistematis. LKS yang ditemukan di lapangan masih berupa isian dan soal tertutup, belum melatih siswa dalam berfikir kritis dan analisis, sehingga belum memenuhi tujuan dari diberikan mata pelajaran matematika di SD. Keadaan yang demikian memicu rendahnya aktivitas dan proses berfikir kreatif siswa dalam proses pembelajaran. Permasalahan di lapangan dapat diselesaikan dengan menggunakan LKS berbasis pendekatan *Open-ended* untuk kelas IV yang valid, praktis, dan efektif.

Jenis penelitian yang digunakan adalah penelitian pengembangan menggunakan model Plomp yang terdiri atas 3 tahap yaitu tahap investigasi awal (*Preliminary research*), tahap perencanaan prototype (*prototyping phase*), dan tahap penilaian (*asesment phase*). LKS yang dikembangkan di validasi oleh ahli di bidang bahasa, isi, dan konstruk. Kemudian LKS diujicobakan untuk melihat kepraktisan dan keefektifan dari LKS tersebut. Kepraktisan LKS dilihat dari observasi pelaksanaan pembelajaran, angket respon siswa dan guru, keefektifan dilihat dari observasi aktivitas siswa dan hasil pemikiran kreatif siswa dalam menggunakan LKS jenis Aplikatif-integritif.

Hasil Penelitian menunjukkan bahwa LKS matematika berbasis pendekatan *Open-ended* di kelas IV SD yang dikembangkan telah memenuhi kriteria valid, praktis dan efektif, serta meningkatkan aktivitas siswa dan hasil berfikir kritis dalam proses pembelajaran.