

ABSTRAK

PENGEMBANGAN PROTOTIPE RANCANGAN PEMBELAJARAN TEMATIK MATEMATIKA MATERI BANGUN RUANG KUBUS DAN BALOK UNTUK KELAS V SD DENGAN METODE BERNYANYI

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Potensi dalam penelitian ini adalah pembelajaran tematik pada Kurikulum 2013 di kelas V SD mata pelajaran Matematika materi sifat dan volume bangun ruang yang terintegrasi dengan Bahasa Indonesia (barang-barang ekspor-impor) dan SBdP (lagu) tema 5 subtema 3. Dari hasil kuesioner yang dibagikan kepada 20 siswa kelas V SD, peneliti mendapatkan data: 20% siswa kesulitan menentukan sifat kubus, 50% kesulitan menentukan sifat balok, 75% siswa kesulitan menentukan volume kubus, 65% siswa kesulitan menentukan volume balok dan 75% siswa memilih Seni Musik untuk belajar tematik Matematika dan Bahasa Indonesia. Oleh karena itu, peneliti mengembangkan prototipe rancangan pembelajaran tematik Matematika materi bangun ruang kubus dan balok. Tujuan penelitian ini adalah menjelaskan prosedur pengembangan dan mendeskripsikan kualitas prototipe tersebut.

Penelitian pengembangan ini menggunakan metode penelitian dan pengembangan (*Research and Development* atau *R & D*) yang terbatas pada 6 langkah, yaitu: 1) potensi dan masalah, 2) pengumpulan data, 3) desain produk, 4) validasi desain, 5) revisi desain, dan 6) uji coba produk. Prototipe divalidasi oleh 3 validator yaitu dosen Matematika, dosen Seni Musik dan guru kelas V. Skor rata-rata dari tiga validator yaitu 3, 16 dengan kategori “baik”, sehingga produk layak diuji coba setelah direvisi.

Uji coba dilaksanakan di kelas V SD Kanisius Kenteng, siswa yang hadir 17. RPP yang diuji cobakan berkaitan dengan materi bangun ruang balok. Dari hasil evaluasi, 82% siswa mendapat nilai di atas KKM. Dari hasil refleksi, 100% siswa dapat menentukan sifat balok, 82% siswa mengerti volume balok. 88% siswa senang ketika mengikuti pembelajaran bangun ruang balok dengan metode bernyanyi.

Kata kunci : pengembangan, prototipe, rancangan pembelajaran, matematika, bangun ruang, kubus, balok, lagu.

ABSTRACT

**THEMATIC LESSON PLAN DEVELOPMENT FOR MATHEMATICS IN
SOLID FIGURE MATERIAL THROUGH SONG FOR 5TH GRADE
ELEMENTARY STUDENTS**

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Potency in this research is thematic learning based on curriculum 2013 for 5th grade elementary students in mathematics material about solid figure's characteristic and volume which is integrated to Bahasa Indonesia (Export and import goods) and SBdP (Song) 5th theme and 3rd sub-theme. Based on questionnaire's result, distributed to 20 of 5th grade students, found that 20% of the students got difficulty in determining cube characteristics, 50% got difficulty in determining cuboid characteristics, 75% of students got difficulty in determining cube volume, 65% of the students got difficulty in determining cuboid volume, and 75% of students need media through song in learning. Based on that result, researcher develops prototype of lesson plan contained of 4 songs (SBdp) about concept of cube and cuboid (Mathematics) and Export-import goods (Bahasa Indonesia). The objective of this research is to explain the procedure of development and to describe the quality of the prototype.

This development research applied research and development (R&D) methodology which is limited in 6 steps, 1) Potential and problem, 2) collecting data, 3) Product design, 4) design validation. 5) Design revision, and 6) Product trial. The prototype is validated by 3 validator which are mathematics lecturer, art, and music lecturer, and 5th grade teacher. Average score from the validators is 3, 16 which means good so this product can be tested after product revision;.

Product trial is executed in SD Kanisius Kenteng and attended by 17 students. The lesson plan which is tested is related to material about solid figure. The result of the learning process evaluation shows that 82% of the students got score above the standard (KKM). Based on reflection's result can be concluded that 100% of the students be able to determine cuboid characteristics, 82% of the students can understand cuboid volume, and 88% of the students feel enthusiastic when discussing material about cuboid through song.

Keywords: *development, prototype, lesson plan, mathematics, solid figure, cube, cuboid, song.*