

ABSTRAK

Riska Putri Amaliya, 2024. Pengembangan Perangkat Pembelajaran Berbasis *Discovery Learning* Berpendekatan TPACK Berorientasi HOTS Pada Materi Cara Tubuh Mengelola Udara Bersih Di Kelas V SD Negeri 46 Kota Ternate. Dibawa bimbingan Dr. Ridwan Jusuf, S.Pd.,M.Pd pembimbing I, dan Selvi Wulandari, S.Pd.,M.Pd pembimbing II.

Penelitian ini bertujuan untuk mengetahui proses penyusunan perangkat pembelajaran, keefektifan produk perangkat pembelajaran, tanggapan guru dan siswa, serta keunggulan dan keterbatasan produk perangkat pembelajaran berbasis *Discovery Learning* berorientasi HOTS berpendekatan TPACK.

Penelitian dan pengembangan ini mengacu pada model pengembangan ADDIE, yang meliputi lima tahap yaitu *analysis* (analisis), *design* (perencanaan), *development* (pengembangan), *implementation* (implementasi), dan *evaluation* (evaluasi). Subjek penelitian adalah peserta didik kelas V SD Negeri 46 Kota Ternate yang berjumlah 21 orang. Instrumen penelitian berupa lembar validasi untuk mendapatkan data kevalidan produk, angket respon siswa dan angket respon guru untuk mendapatkan data kepraktisan dan tes hasil belajar untuk mendapatkan data keefektifan produk yang dikembangkan.

Kualitas kevalidan perangkat pembelajaran memenuhi kriteria valid ditunjukkan oleh rata-rata total kevalidan RPP dari validator I yaitu 109,2, validator II 106,49, validator III 105,18, rata-rata total kevalidan LKPD dari validator I yaitu 58,99, validator II 62,2, validator III 71,08, rata-rata total kevalidan instrumen penilaian dari validator I yaitu 38,18, validator II 40,58, validator III 42,2, dan rata-rata total kevalidan media *PowerPoint* dari validator I yaitu 73,8, validator II 73,8, validator III 81. Kualitas kepraktisan perangkat pembelajaran memenuhi kriteria praktis ditunjukkan oleh rata-rata total angket respon siswa sebesar 71,72% dan rata-rata total angket respon guru sebesar 86,25%. Kualitas keefektifan perangkat pembelajaran ditinjau dari hasil tes belajar peserta didik memenuhi kriteria efektif dengan persentase rata-rata hasil belajar yaitu 76,19%.

Kata kunci: Penelitian Pengembangan, Perangkat Pembelajaran, *Discovery Learning*

Abstract

Riska Putri Amaliya, 2024. Development of Learning Tools Based on Discovery Learning Using the HOTS-Oriented TPACK Approach on How the Body Manages Clean Air in Class V of SD Negeri 46 Ternate City. Under the guidance of Dr. Ridwan Jusuf, S.Pd., M.Pd supervisor I, and Selvi Wulandari, S.Pd., M.Pd supervisor II.

This research aims to determine the process of preparing learning tools, the effectiveness of learning tool products, teacher and student responses, as well as the advantages and limitations of learning tool products based on HOTS-oriented Discovery Learning using the TPACK approach.

This research and development refers to the ADDIE development model which includes five stages, namely analysis, design, development, implementation and evaluation. The research subjects were 21 class V students at SD Negeri 46 Ternate City. The research instruments are validation sheets to obtain product validity data, student response questionnaires and teacher response questionnaires to obtain practicality data and learning outcome tests to obtain data on the effectiveness of the products being developed.

The quality of the validity of learning devices that meet the valid criteria is shown by the average validity of lesson plans from validator I, namely 109.2, validator II 106.49, validator III 105.18, The average number of valid LKPD from validator I is 58.99, validator II 62.2, validator III 71.08, The average number of validity assessment instruments from validator I is 38.18, validator II 40.58, validator III 42, and the average amount of validity of PowerPoint media from validator I is 73.8, validator II 73.8, validator III 81. The practical quality of learning tools meets practical criteria as shown by the average total student response questionnaire of 71.72% and the average total teacher response questionnaire of 86.25%.. The quality of the effectiveness of learning tools is seen from the results of student learning tests that meet the effective criteria with an average percentage of learning outcomes of 76.19%.

Keywords: *Development Research, Learning Tools, Discovery Learning*