

**PENGEMBANGAN MEDIA PEMBELAJARAN *POP-UP BOOK* DIGITAL  
SISTEM PENCERNAAN PADA MANUSIA BERBASIS HOTS UNTUK  
MENINGKATKAN KEMAMPUAN BERNALAR KRITIS SISWA  
SEKOLAH DASAR**

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**ABSTRAK**

Penelitian ini dilatarbelakangi oleh rendah dan lemahnya kemampuan bernalar kritis siswa yang diakibatkan karena kurangnya penggunaan media pembelajaran dan kegiatan pembelajaran yang belum menuntut siswa untuk aktif terlibat. Penelitian pengembangan ini memiliki tujuan, yaitu (1) mengembangkan (rancang bangun) media *pop-up book* digital sistem pencernaan pada manusia berbasis HOTS, (2) mengetahui validitas media *pop-up book* digital sistem pencernaan pada manusia berbasis HOTS, (3) mengetahui tingkat kepraktisan media *pop-up book* digital sistem pencernaan pada manusia berbasis HOTS, dan (4) mengetahui efektivitas media *pop-up book* digital sistem pencernaan pada manusia berbasis HOTS terhadap kemampuan bernalar kritis siswa kelas V Sekolah Dasar. Penelitian ini menggunakan model ADDIE yang terdiri dari lima tahapan, yaitu (1) analisis, (2) perancangan, (3) pengembangan, (4) implementasi, dan (5) evaluasi. Subjek pengembangan berupa media pembelajaran *pop-up book* digital, sedangkan objek penelitian pengembangan ini adalah validitas, kepraktisan, dan efektivitas media. Metode pengumpulan data yaitu angket/kuisisioner dan tes. Instrumen yang digunakan untuk mengumpulkan data yaitu lembar angket/kuisisioner dan tes pilihan ganda. Hasil penelitian menunjukkan bahwa: (1) media *pop-up book* digital mendapatkan validitas ahli materi sebesar 3,77, validitas ahli media sebesar 3,77, dan validitas desain sebesar 3,8 dengan kualifikasi sangat baik; (2) tingkat pencapaian respons guru (praktisi) sebesar 93%, uji coba perorangan sebesar 90%, dan uji coba kelompok kecil sebesar 91% dengan kualifikasi sangat baik; serta (3) efektivitas memperoleh nilai signifikansi (*2-tailed*) pada uji-t sebesar 0,000 atau  $p < 0,05$  (taraf signifikansi 5%), sehingga media pembelajaran *pop-up book* digital efektif guna meningkatkan kemampuan bernalar kritis siswa kelas V SD.

**Kata Kunci:** *Pop-up book* digital, sistem pencernaan pada manusia, HOTS, bernalar kritis.

**DEVELOPMENT OF HOTS-BASED DIGITAL POP-UP BOOK LEARNING  
MEDIA FOR THE HUMAN DIGESTIVE SYSTEM TO IMPROVE THE  
CRITICAL REASONING SKILLS OF ELEMENTARY SCHOOL STUDENTS**

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**ABSTRACT**

*This research is motivated by the low and weak critical reasoning skills of students resulting from the lack of use of learning media and learning activities that do not require students to be actively involved. This development research has objectives, namely (1) developing (designing) HOTS-based digital pop-up book media for the digestive system in humans, (2) determining the validity of HOTS-based digital pop-up book media for the digestive system in humans, (3) determining the level of practicality of digital pop-up book media for the digestive system in HOTS-based humans, and (4) determining the effectiveness of pop-up book mediadigital digestive system in humans based on HOTS on the critical reasoning ability of grade V elementary school students. This study uses the ADDIE model which consists of five stages, namely (1) analysis, (2) design, (3) development, (4) implementation, and (5) evaluation. The subject of development is in the form of digital pop-up book learning media, while the object of this development research is the validity, practicality, and effectiveness of the media. The data collection method is questionnaire and test. The instruments used to collect data were questionnaire sheets and multiple-choice tests. The results of the study showed that: (1) digital pop-up book media obtained a validity of 3.77 subject matter experts, media expert validity of 3.77, and design validity of 3.8 with excellent qualifications; (2) the achievement rate of teacher (practitioner) response is 93%, individual trials are 90%, and small group trials are 91% with excellent qualifications; and (3) the effectiveness of obtaining a significance value (2-tailed) on the t-test of 0.000 or  $p < 0.05$  (significance level of 5%), so that digital pop-up book learning media is effective to improve the critical reasoning skills of grade V elementary school students.*

**Keywords:** *Digital pop-up book , digestive system in humans, HOTS, Critical Reasoning.*