

ABSTRAK**PENGEMBANGAN *SCRAPBOOK* YANG DIPADUKAN DENGAN QR CODE SEBAGAI MEDIA PEMBELAJARAN KOOPERATIF TIPE *PICTURE AND PICTURE* PADA MATERI SISTEM PENCERNAAN KELAS X**

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Berdasarkan analisis kebutuhan di lima Sekolah Menengah Atas (SMA) di Yogyakarta, media pembelajaran pada materi sistem pencernaan belum dapat meningkatkan pemahaman siswa terhadap materi sistem pencernaan. Tujuan penelitian ini adalah untuk mengetahui hasil pengembangan dan kualitas *scrapbook* yang dipadukan dengan *QR code* sebagai media pembelajaran untuk meningkatkan pemahaman siswa terhadap materi sistem pencernaan kelas XI.

Metode yang digunakan dalam penelitian ini adalah *Research and Development* (RnD). RnD adalah metode penelitian untuk menghasilkan dan menguji produk baru hasil pengembangan. Terdapat 10 tahap pengembangan namun dalam penelitian ini hanya digunakan 5 tahap, yaitu potensi dan masalah, pengumpulan informasi, desain produk, validasi desain, dan revisi desain. Analisis data dilakukan secara kualitatif dan kuantitatif.

Produk yang dikembangkan divalidasi oleh validator yang meliputi ahli materi, ahli media, dan 2 guru biologi. Hasil validasi mendapatkan rata-rata skor 3.59. Skor menunjukkan kategori “Sangat Baik” sehingga produk yang dikembangkan layak untuk diujicobakan dan dikembangkan berdasarkan komentar dan saran dari validator.

Kata kunci : penelitian dan pengembangan, pembelajaran kooperatif tipe *picture and picture*, *scrapbook*, *QR code*, sistem pencernaan

ABSTRACT

**DEVELOPMENT OF SCRAPBOOK WITH QR CODE AS LEARNING
MEDIA FOR COOPERATIVE LEARNING TIPE PICTURE AND PICTURE
BASED IN HUMAN DIGESTIVE SYSTEM CLASS XI**

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Based on the analysis in five Senior High Schools in Yogyakarta, showed that learning media for the digestive system material has'nt been able to improved student's ability to analyze the digestive system material. The purpose of this study were to determine the result of development and the quality of scrapbook with QR Code as learning media to improve the student's learning quality.on the digestive system material of class XI.

The method of this study is Research and Development (RnD). RnD is research method to produce and test the new products of development. There are actually 10 (ten) steps to develop the subject (scrapbook). However, this study only conducts 5 steps. There are potential and problems, data collection, product design, design validation, and design revision. This study is analyzed by using qualitative and quantitative data that collected by those 5 steps the writer has mentioned.

The research and development of the product is obtained from validating by validators, they are media experts, material experts, and biology teachers of class XI. The result get average score 3,59. The score means that included in "Very Good" category so that the developed product deserves to be tested based on the comments and suggestions from validators.

Keywords : research and development, cooperative learning tipe picture and picture, scrapbook, QR code, digestive system