

ABSTRAK

**PENGEMBANGAN E-MODUL INTERAKTIF BERBANTUAN
ARTICULATE STORYLINE 3 UNTUK Mendukung
Pembelajaran Laju Reaksi di SMA**

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Laju reaksi merupakan salah satu materi kimia yang dianggap sulit dengan memuat tiga level representasi yaitu pada aspek makroskopis, mikroskopis, dan simbolik, sehingga diperlukan bahan ajar yang dapat mendukung pembelajaran. Pembelajaran laju reaksi di SMA Negeri 1 Kalasan belum memanfaatkan e-modul interaktif sebagai sumber belajar digital karena telah terbiasa dengan pembelajaran konvensional menggunakan bahan ajar cetak seperti buku paket dan LKPD. Penelitian ini bertujuan untuk: (1) mengetahui kelayakan produk berupa e-modul interaktif berbantuan Articulate Storyline 3; dan (2) mengetahui respon dari penggunaan produk. Penelitian ini mengacu pada *Research and Development* (R & D) dengan model pengembangan 4-D yang dimodifikasi menjadi 3-D yang melibatkan 10 orang peserta didik kelas XI MIPA sebagai responden. Instrumen penelitian mencakup lembar wawancara, lembar angket survei, butir soal dalam bentuk latihan, forum diskusi, dan tes formatif, serta angket respon peserta didik. Data penelitian dianalisis menggunakan statistik Aiken dan deskriptif. Hasil penelitian menunjukkan bahwa: (1) produk telah memenuhi kriteria sangat layak dengan rata-rata persentase sebesar 86% yang termasuk kategori sangat valid; memenuhi kriteria efektif berdasarkan rata-rata nilai seluruh butir soal dalam e-modul sebesar 78,4 dengan persentase ketuntasan pengerjaan butir soal dalam bentuk latihan, forum diskusi, dan tes formatif berturut-turut sebesar 76,7%, 85,8%, dan 72,7%; dan memenuhi kriteria sangat praktis dengan rata-rata persentase sebesar 81%; dan (2) produk mendapatkan respon sangat tinggi dengan rata-rata persentase sebesar 81% berdasarkan hasil analisis angket respon. Rata-rata persentase respon peserta didik per butir pernyataan dalam angket pada kegiatan pembelajaran 1, 2, dan 3 berturut-turut sebesar 80%, 81,5%, dan 81,3%. Hal ini didukung dengan adanya tanggapan responden yang menyatakan bahwa produk yang telah dikembangkan menarik, inovatif, mudah dipahami, serta seru dan interaktif.

Kata Kunci: E-modul interaktif, Articulate Storyline 3, laju reaksi

ABSTRACT**DEVELOPMENT OF ARTICULATE STORYLINE 3-ASSISTED
INTERACTIVE E-MODULE TO SUPPORT REACTION
RATE LEARNING IN HIGH SCHOOL**

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Reaction rate is one of the chemical materials that is considered difficult by containing three levels of chemical representation, namely in the macroscopic, microscopic, and symbolic aspects, so that teaching materials are needed that can support learning. Reaction rate learning at SMA Negeri 1 Kalasan has not utilized interactive e-modules as digital learning resource because they are used to conventional learning using printed teaching materials, such as textbooks and worksheets. This study aims to: (1) know the feasibility of the product in the form of interactive e-modules assisted by Articulate Storyline 3; and (2) know the response from using product. This research refers to Research and Development (R & D) with 4-D development model which is modified to 3-D which involves 10 students of XI MIPA class as respondents. The research instruments included interview sheet, survey questionnaire sheet, items in the form of exercises, discussion forums, and formative tests, as well as student response questionnaire. Research data were analyzed using Aiken and descriptive statistics. The results of the research show that: (1) product has fulfilled very feasible criteria with average percentage of 86% which is included very valid category; fulfilled effective criteria based on the average value of all the items in the e-module, which was 78.4 with the percentage of completeness in working on the items in the form of exercises, discussion forums, and formative tests respectively 76.7%, 85.8% , and 72.7%; and fulfilled very practical criteria with average percentage of 81%; and (2) product earned very high response with average percentage of 81% based on the results of the response questionnaire analysis. The average percentage of students' responses per item statement in the questionnaires in learning activities 1, 2, and 3 respectively 80%, 81.5%, and 81.3%. This is supported by the responses of respondents who stated that the product that have been developed are attractive, innovative, easy to understand, as well as fun and interactive.

Keywords: *Interactive E-Module, Articulate Storyline 3, Reaction Rate*