ABSTRAK

Sujono Putra Daeli. 2023. Pengembangan Media Animasi Berbasis Multipel Representasi Pada Materi Ikatan Kimia Untuk Siswa SMA. Skripsi, Tanjungpinang: Program Studi Pendidikan Kimia, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I: Assist. Prof. Ardi Widhia Sabekti, S.Pd., M.Pd. Pembimbing II: Assist. Prof. Rita Fitriani, S.Pd., M.Pd.

Kata Kunci: Media Animasi, Multipel Representasi, Ikatan Kimia

Pengembangan Media Animasi Berbasis Multipel Representasi pada Materi Ikatan Kimia untuk Siswa SMA dikembangkan agar memudahkan siswa dalam mempelajari mata pelajaran kimia. Pengembangan media ini merupakan media animasi yang mencakup tiga level multipel representasi yaitu makroskopik, submikroskopik, dan simbolik. Penelitian ini bertujuan untuk 1) Mengetahui proses pembuatan media animasi berbasis multipel representasi pada materi ikatan kimia untuk siswa SMA; 2) Mengetahui validitas media animasi berbasis multipel representasi pada materi ikatan kimia untuk siswa SMA; 3) Mengetahui praktikalitas media animasi berbasis multipel representasi pada materi ikatan kimia untuk siswa SMA. Penelitian ini merupakan penelitian pengembangan (*Research Development*) dengan model Hannafin dan Peck yang terdiri dari tiga tahap yaitu analisis kebutuhan, desain dan pengembangan dan implementasi. Hasil pengembangan media animasi berbasis multipel representasi pada materi ikatan kimia ini memenuhi kriteria valid dengan hasil uji validitas ahli materi diperoleh nilai sebesar 86,36% dengan kategori sangat valid, hasil uji validitas media diperoleh nilai sebesar 69,23% dengan kategori valid. Hasil uji praktikalitas diperoleh dari praktikalitas guru sebesar 100% dengan kategori sangat praktis dan praktikalitas siswa sebesar 85,50% dengan kategori sangat praktis. Berdasarkan hasil penelitian dapat disimpulkan bahwa media animasi berbasis multipel representasi pada materi ikatan kimia valid dan sangat praktis digunakan sebagai media pembelajaran.

ABSTRACT

Sujono Putra Daeli. 2023. Development of Multiple Representation-Based Animation Media on Chemical Bonding Material for High School Students. Thesis, Tanjungpinang: Chemistry Education Study Program, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor I: Assist. Prof. Ardi Widhia Sabekti, S.Pd., M.Pd. Advisor II: Assist. Prof. Rita Fitriani, S.Pd., M.Pd.

Keywords: Animation Media, Multiple Representations, Chemical Bonds

Development of Multiple Representation-Based Animated Media on Chemical Bonding Material for High School Students was developed to make it easier for students to study chemistry subjects. The development of this media is an animation medium that includes three levels of multiple representations, namely macroscopic, submicroscopic, and symbolic. This study aims to 1) Know the process of making animation media based on multiple representations on chemical bonding material for high school students; 2) Knowing the validity of multiple representation based animation media on chemical bond material for high school students; 3) Knowing the practicality of multiple representation based animation media on chemical bond material for high school students. This research is research development (Research Development) with the Hannafin and Peck model which consists of three stages, namely needs analysis, design and development and implementation. The results of the development of animation media based on multiple representations on chemical bonding material meet the valid criteria with the results of the material expert validity test obtained a value of 86.36% in the very valid category, the results of the media validity test obtained a value of 69.23% in the valid category. The practicality test results were obtained from the practicality of the teacher by 100% in the very practical category and the practicality of students by 85.50% in the very practical category. Based on the results of the study it can be concluded that the animation media based on multiple representations on chemical bond material is valid and very practical to use as a learning medium.