ABSTRAK

David Frans Pardamean Sihombing, NIM 4183331036 (2022), Efektivitas Penggunaan Media Pembelajaran Berbasis *Android* Terhadap Hasil Belajar Siswa Pada Materi Termokimia.

Tujuan penelitian ini untuk mengetahui: (1) Keefektifan media pembelajaran berbasis *Android* terhadap hasil belajar siswa pada materi termokimia; (2) Respon siswa terhadap penggunaan media pembelajaran berbasis *Android* pada materi termokimia; (3) Hasil belajar siswa yang dibelajarkan dengan menggunakan media pembelajaran kimia berbasis *Android* sama dengan nilai KKM. Penelitian ini dilakukan disekolah SMA Negeri 5 Medan dengan total sampel sebanyak 68 orang. Instrumen penelitian ini terdiri atas tes dan kuesioner yang telah terstandarisasi. Teknik analisis yang digunakan: (1) Uji t dua pihak (*Independent Samples T test*); dan (2) Uji *One Sample Test*. Dari hasil penelitian ini diperoleh bahwa: (1) Media pembelajaran kimia berbasis *Android* efektiv terhadap hasil belajar siswa pada materi termokimia, dengan uji t_{hitung} sebesar 7,063 lebih besar dari t_{tabel} sebesar 2,00. Kemudian berdasarkan *Gain Score* diperoleh uji t_{hitung} sebesar 6,843 lebih besar dari t_{tabel} sebesar 2,00; (2) Respon siswa "Sangat Menarik" dengan persentase masing-masing aspek 92,27%, 93,93% dan 92,12%, terhadap penggunaan media pembelajaran berbasis *Android* pada materi termokimia; (3) Hasil belajar siswa yang dibelajarkan dengan menggunakan media pembelajaran kimia berbasis *Android* tidak sama dengan nilai KKM, dimana , t hitung (2,126) > t tabel (2,032).

Kata kunci: Media pembelajaran berbasis Android, Hasil belajar, Termokimia

ABSTRACT

David Frans Pardamean Sihombing, NIM 4183331036 (2022), The Effectiveness of Using Android-Based Learning Media on Student Learning Outcomes on Thermochemical Materials.

The purpose of this study was to determine: (1) the effectiveness of *Android*-based learning media on student learning outcomes in thermochemical material; (2) Student responses to the use of *Android*-based learning media on thermochemical material; (3) The learning outcomes of students who are taught using Android-based chemistry learning media are the same as the KKM value. This research was conducted at SMA Negeri 5 Medan with a total sample of 68 people. The research instrument consisted of standardized tests and questionnaires. The analytical techniques used are: (1) two-party t test (Independent Samples T test); and (2) One Sample Test. From the results of this study, it was found that: (1) *Android* -based chemistry learning media was effective on student learning outcomes on thermochemical material, with a t-test of 7.063 which was greater than t-table of 2.00. Then based on the Gain Score, the t-test of 6.843 was obtained, which was greater than the t-table of 2.00; (2) Student responses "Very Interesting" with percentages of 92.27%, 93.93% and 92.12%, respectively, on the use of *Android*-based learning media in thermochemical material; (3) The learning outcomes of students who are taught using *Android*-based chemistry learning media are not the same as the KKM value, where , t count (2,126) > t table (2,032).

Keywords: *Android*-based learning media, learning outcomes, Thermochemistry