

**PERBEDAAN HASIL BELAJAR SISWA DENGAN MENGGUNAKAN
MULTIMEDIA BERBASIS KOMPUTER DAN MEDIA CHARTA
PADA MATERI SEL KELAS XI SMA N 1 LINTONGNIHUTA
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ABSTRAK**

Penelitian ini bertujuan untuk mengetahui perbedaan hasil belajar siswa yang diajar menggunakan multimedia berbasis komputer dan media charta pada materi sel di kelas XI IPA SMA Negeri 1 Lintongnihuta. Penelitian ini merupakan penelitian eksperimen dimana populasinya adalah seluruh siswa kelas XI IPA SMA Negeri 1 Lintongnihuta yang terdiri dari tiga kelas dengan jumlah siswa 110 orang. Pengambilan sampel secara random (*random sampling*) dan didapat dua kelas sebagai sampel yaitu kelas XI IPA-1 dan XI IPA-2 yang berjumlah 72 orang. Kelas XI IPA-1 diajarkan dengan media charta dan XI IPA-2 dengan multimedia berbasis komputer. Instrumen yang digunakan dalam penelitian ini berupa soal pilihan berganda yang berjumlah 25 buah yang digunakan sebagai soal pre-test dan post-test.

Rata-rata hasil belajar kelas *Multimedia Berbasis Komputer* sebesar 76,78 dengan standar deviasi 7,93 lebih tinggi dibanding kelas *Media Charta* 69,78 dengan standar deviasi 11,45 sehingga terdapat perbedaan nilai sebesar 10,03% dengan perbandingan rata-rata *media charta* : *Multimedia Berbasis Komputer* = 1 : 1,1. Pengujian hipotesis yang dilakukan dengan uji t menunjukkan nilai $t_{hitung} = -3,004$ dan $t_{tabel} = 1,995$ dengan taraf signifikansi 0,05. H_0 diterima jika $-t_{(1-1/2\alpha)} < t_{hit} < t_{(1-1/2\alpha)}$. Berdasarkan kriteria tersebut penelitian ini menolak H_0 dan menerima H_a . Sehingga terdapat perbedaan antara hasil belajar siswa yang diajar dengan *Media Charta* dengan *Multimedia Berbasis Komputer* pada materi Sel Kelas XI IPA SMA Negeri 1 Lintongnihuta.

Kata kunci : media charta, multimedia berbasis komputer, hasil belajar siswa

**THE DIFFERENCES OF STUDENT'S LEARNING RESULT BY USING
COMPUTER BASED MULTIMEDIA WITH CHART MEDIA ON
CELL SUBJECT IN CLASS XI SAINS OF SMA N 1
LINTONGNIHUTA ACADEMIC
YEAR 2013/2014**

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ABSTRACT**

The aim of this research was to know the different of student's learning result taught by computer based multimedia and chart media on cell main subject in XI Sains of SMA N 1 Lintongnihuta. This research was an experiment research where the population was all the students of XI Sains that consist of three class that have 110 students. Taking sample method is done by using random sampling and two class has been made as the sample is XI Sains-1 class and XI Sains-2 class that have 72 students that cover 36 students in XI Sains-1 and 36 students in XI Sains-2. XI Sains-1 as the first experiment class taught by chart media and XI Sains-2 as the second class taught by computer based mutimedia. The instrument in this research is made in multiple choice test which have 25 numbers using as pre-test and post-test.

The learning outcomes for *Computer Based Multimedia* class have mean 76,78 with deviation standard 7,93 is higher than *Chart Media* class that have mean 69,78 with deviation standard 11,45, so there was difference about 10,03% with comparison of increase mean *Chart Media* : *Computer Based Multimedia* = 1 : 1,1. The result of hypothesis test using t test showed $t_{\text{count}} = -3,004$ and $t_{\text{table}} = 1,995$ with significance level 0,05. H_0 accepted if $-t_{(1-1/2\alpha)} < t_{\text{count}} < t_{(1-1/2\alpha)}$. Based on the criteria H_0 was rejected and accepted H_a . So, there was difference of student's learning outcomes taught by *Chart Media* and *Computer Based Multimedia* type on Cell main subject in class XI IPA of SMA Negeri 1 Lintongnihuta.

Keywords: Chart Media, Computer Based Multimedia, student's learning result