

ABSTRAK

Siska Nababan (4173131040) HUBUNGAN KEMAMPUAN MATEMATIKA DAN KEMAMPUAN ANALISIS TERHADAP HASIL BELAJAR KIMIA SISWA KELAS XI IPA SMA PADA MATERI LAJU REAKSI

Penelitian ini bertujuan untuk mengetahui apakah ada hubungan yang signifikan antara kemampuan matematika, kemampuan analisis dengan hasil belajar kimia serta hubungan kemampuan matematika dan kemampuan analisis dengan hasil belajar kimia. Sampel dalam penelitian ini terdiri dari satu kelas yang diambil dengan teknik random sampling. Instrumen yang digunakan adalah instrument tes yang terdiri dari 3 jenis yaitu tes kemampuan matematika, tes kemampuan analisis dan tes hasil belajar kimia. Analisis data yang dilakukan regresi sederhana dan regresi ganda, serta uji korelasi dan koefisien determinasi pada taraf signifikansi ($\alpha = 0,05$). Hasil penelitian menunjukkan bahwa : Ada hubungan yang signifikan antara kemampuan matematika dengan hasil belajar, ada hubungan yang signifikan antara kemampuan analisis dengan hasil belajar kimia siswa. Selanjutnya diperoleh juga bahwa ada hubungan yang signifikan antara kemampuan matematika dan kemampuan analisis dengan hasil belajar kimia siswa kontribusi kemampuan matematika dan kemampuan analisis terhadap hasil belajar siswa diperoleh 75,16 %, berarti 24,84% lagi adalah kontribusi factor lain.

Kata kunci : Kemampuan matematika, kemampuan analisis, hasil belajar, regresi linear sederhana, regresi linear ganda.

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ABSTRACT

Siska Nababan (4173131040) The Relationship Between Mathematical Skills And Analytical Skills On Chemistry Learning Outcomes Of Natural Science Class XI Senior High School On The Material Reaction Rate

This study aims to determine whether there is a significant relationship between mathematical skills, analytical skills with chemistry learning outcomes and the relationship between mathematical skills and analytical skills with chemistry learning outcomes. The sample in this study consisted of one class which was taken by random sampling technique. The instrument used is a test instrument which consists of 3 types, namely a math skills test, an analytical skills test and a chemistry learning outcome test. Data analysis was performed using simple regression and multiple regression, as well as the correlation test and the coefficient of determination at the significance level ($\alpha = 0.05$). The results showed that: There is a significant relationship between mathematical skills and learning outcomes, there is a significant relationship between analytical skills and students' chemistry learning outcomes. Furthermore, it was also obtained that there was a significant relationship between mathematical skills and analytical skills with student learning outcomes. The contribution of mathematical skills and analytical skills to student learning outcomes was 75.16%, meaning that 24.84% was the contribution of other factors.

Keywords: Mathematical skills, analytical skills, learning outcomes, simple linear regression, multiple linear regression.

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