Pengaruh Model *Problem Based Learning Yang* Menggunakan Media Virtual Lab Dan Real Lab Terhadap Kemampuan Numerik Dan Hasil Belajar Siswa SMA Pada Materi Termokimia

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Problem Based Learning (PBL)* dan kemampuan numerik terhadap hasil belajar kimia siswa pada materi Termokimia, juga interaksi antara model pembelajaran menggunakan media dan kemampuan numerik. Penelitian ini dilakukan terhadap siswa kelas XI IPA SMA N 1 Stabat yang terdiri dari 9 kelas dan 2 kelas sebagai sampel yang diambil secara purposive sampling. Merupakan penelitian eksperimen dengan rancangan anava faktorial 2 × 2. Data hasil belajar diperoleh dari tes hasil belajar yang menggunakan instrumen yang valid sebanyak 25 soal dan reliabel r (0,85) dan data untuk kemampuan numerik siswa diperoleh melalui test kemampuan numerik dengan soal yang telah valid. Teknik analisa data menggunakan analisis varian dua jalur. Hasil penelitian menunjukkan terdapat pengaruh model pembelajaran *PBL* menggunakan media terhadap hasil belajar siswa pada materi termokimia dengan nilai $F_{hitung} > F_{tabel}$ yaitu 4,015 > 3,99, terdapat pengaruh kemampuan numerik tinggi dan kemampuan numerik rendah terhadap hasil belajar kimia pada materi termokimia dengan nilai $F_{hitung} > F_{tabel}$ yaitu 23,717 > 3,99 dan terdapat interaksi antara model pembelajaran menggunakan media dengan kemampuan numerik terhadap hasil belajar kimia pada materi termokimia dengan nilai $F_{hitung} > F_{tabel}$ yaitu 11,142 > 3,99.

Kata Kunci : Anava 2×2, Hasil belajar, Kemampuan Numerik, *Model Problem Based Learning (PBL)*

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The Influence Of The Problem Based Learning Models Using MediaVirtual Lab And Real Lab Against Numerical Ability And The Results Of Learning High School Students On The Material Of Thermo

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ABSTRAK

This research aims to know the influence of model Problem Based Learning (PBL) and numerical abilities against the results of the study on the material of Thermo-chemistry students, as well as the interaction between the learning model used the media and the ability numerically. This research was done to the students of Class XI IPA SMA N 1 Stabat consisting of 9 class and 2 class as samples taken in purposive sampling. Is the research design anava factorial experiments with 2 × 2. Learning outcome data obtained from test results of the study are a valid instrument to use as many as 25 reserved and reliability r (0.85) and data for the numerical abilities of students obtained through numerical ability test with a matter that has been valid. Data analysis techniques using two lines of variant analysis. The results showed there is the influence of model learning using PBL media on student learning outcomes on the material of Thermo-with a value of $F_{hit} > F_{tab}$ namely 4,015 > 3,99. There is the influence of numerical ability and high numerical ability low against the results of thermo-chemical study on the material with a value $F_{hit} > F_{tab}$ namely 23.717 > 3.99 and there is interaction between the learning model using media with numerical ability against the results of the study on thermo-chemical material with $F_{hit} > F_{tab}$ namely 11.142 > 3.99.

Keywords: Anava 2 × 2, the results of the study, Numerical Ability, Problem Based Learning (PBL)