

## ABSTRAK

### PENGARUH PENERAPAN METODE INDEX CARD MATCH TERHADAP PEMAHAMAN KONSEP DAN EFIKASI DIRI PESERTA DIDIK PADA MATERI REAKSI REDOKS KELAS X SMA KATOLIK SANG TIMUR YOGYAKARTA

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Peserta didik masih mengalami masalah pemahaman konsep materi yang dipelajari, sehingga berdampak pada menurunnya efikasi diri. Faktor utama penyebab masalah ialah aktivitas belajar peserta didik yang kurang didukung. Penataan kembali model, strategi, dan metode pembelajaran dengan bantuan media pembelajaran perlu dilakukan untuk meningkatkan keaktifan belajar peserta didik. Salah satunya ialah metode *Index Card Match* melalui teknik permainan pencocokan kartu. Penelitian ini bertujuan untuk mengetahui pengaruh penerapan metode *Index Card Match* terhadap pemahaman konsep dan efikasi diri peserta didik pada reaksi redoks di kelas X MIPA SMA Katolik Sang Timur Yogyakarta. Jenis penelitian yang digunakan ialah metode eksperimen dengan pendekatan kuantitatif. Instrumen yang digunakan berupa lembar silabus, RPP, *pretest-posttest*, angket dan wawancara. Analisis data penelitian menggunakan SPSS dan deskriptif. Hasil penelitian menunjukkan 1) terdapat pengaruh penerapan metode *index card match* terhadap pemahaman konsep yang dilihat dari persentase rata-rata indikator pemahaman konsep *pretest-posttest*. Peningkatan pemahaman konsep juga ditinjau dari hasil uji hipotesis yang menunjukkan nilai signifikansi  $< \alpha$  dan  $t_{hitung} > t_{tabel}$ . 2) terdapat juga pengaruh penerapan metode *index card match* terhadap efikasi diri peserta didik yang dilihat dari hasil angket dan wawancara. Hasil angket menunjukkan persentase untuk aspek *magnitude* sebesar 68%, aspek *generality* sebesar 77%, dan aspek *strength* sebesar 82%. Hasil wawancara menunjukkan peserta didik mampu menyesuaikan diri dengan tingkat kesulitan tugas serta memiliki keaktifan belajar yang baik. Hasil uji hipotesis didukung dengan hasil angket dan wawancara menunjukkan korelasi antara pemahaman konsep dan efikasi diri melalui metode ICM. Selama penerapan metode ICM, peserta didik memiliki keyakinan diri yang tinggi maka akan mempengaruhi pemahaman konsep yang baik.

Kata Kunci: Metode *Index Card Match*, efikasi diri, pemahaman konsep, reaksi redoks

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**THE EFFECT OF APPLYING INDEX CARD MATCH METHOD ON  
STUDENTS' CONCEPTUAL UNDERSTANDING AND SELF-EFFICACY ON  
REDOX REACTION AT 10<sup>TH</sup> GRADE SMA KATOLIK SANG TIMUR  
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*Students still have problems with a conceptual understanding of the material being studied, so it has an impact on decreasing self-efficacy. The main factor causing the problem is the learning activities of students who are not supported. The rearrangement of models, strategies, and learning methods with the help of learning media needs to be done to increase students' active learning. One of them is the Index Card Match method through card matching game techniques. This study aims to determine the effect of the Index Card Match method's application on students' conceptual understanding and self-efficacy on redox material in 10<sup>th</sup> grade Sang Timur Yogyakarta. The type of research used is an experimental method with a quantitative approach. The instruments used were syllabus sheet, lesson plans, pretest-posttest, questionnaire, and interview sheet. Analysis of research data using SPSS and descriptive. The results of the study show 1) there is an effect of applying the index card match method to understanding the concept as seen from the average percentage of indicators of understanding the concept of pretest-posttest. Increased understanding of the concept is also seen from the results of hypothesis testing which shows the significance value  $< \alpha$  and  $t\text{-count} > t\text{-table}$ . 2) there is also the effect of the application of the Index Card match method on the self-efficacy of students as seen from the results of questionnaires and interviews. The results of the questionnaire show the percentage for the magnitude aspect is 68%, the generality aspect is 77%, and the strength aspect is 82%. The results of the interviews showed that students were able to adjust to the level of difficulty of the task and had good learning activities. The results of hypothesis testing are supported by the results of questionnaires and interviews showing a correlation between conceptual understanding and self-efficacy through the ICM method. During the application of the ICM method, students have high self-confidence which will affect a good conceptual understanding.*

*Keywords:* Index Card Match method, self-efficacy, concept understanding, redox reaction