

## ABSTRAK

Esah Rindayani. (2017). **Peningkatan Kemampuan Koneksi Matematis dan Self-Regulated Learning Siswa SMK melalui Model Pembelajaran Survey, Question, Read, Recite, Reflect, Review (SQ4R).**

Penelitian ini bertujuan untuk mengkaji penerapan model pembelajaran *Survey, Question, Read, Recite, Reflect, Review* (SQ4R) terhadap peningkatan kemampuan koneksi matematis dan *Self-Regulated Learning* (SRL) siswa. Penelitian ini menggunakan metode kuasi eksperimen. Desain penelitian yang digunakan adalah desain kelompok kontrol pretes-postes. Populasi dalam penelitian ini adalah seluruh siswa kelas X SMK Nasional Bandung. Adapun sampel dalam penelitian ini adalah siswa kelas X-TKJ sebagai kelas eksperimen dan siswa kelas X-MMD sebagai kelas kontrol yang dipilih secara *purposive sampling*. Masalah yang diteliti yaitu peningkatan kemampuan koneksi matematis siswa serta SRL siswa terhadap pembelajaran matematika dengan model pembelajaran SQ4R. Instrumen pengumpulan data menggunakan tes kemampuan koneksi matematis dan angket skala SRL. Instrumen tes kemampuan koneksi matematis siswa diujicobakan terlebih dahulu sehingga memenuhi prasyarat untuk digunakan dalam penelitian ini, begitu pula dengan angket SRL yang diujicobakan dengan mengubah data skala kualitatif ke dalam data *Methode of Successive Interval* (MSI) terlebih dahulu. Analisis data kuantitatif menggunakan teknik *independent sample t-test* sedangkan analisis data skala sikap terlebih dahulu diubah menjadi data kuantitatif lalu dianalisis menggunakan teknik *one sample t-test*. Hasil penelitian menunjukkan bahwa: 1) peningkatan kemampuan koneksi matematis siswa yang mendapatkan model pembelajaran *Survey, Question, Read, Recite, Reflect, Review* lebih baik daripada siswa yang mendapatkan model pembelajaran *Problem Based Learning*, 2) peningkatan *Self-Regulated Learning* siswa yang mendapatkan model pembelajaran *Survey, Question, Read, Recite, Reflect, Review* lebih baik daripada siswa yang mendapatkan model pembelajaran *Problem Based Learning*. Dengan demikian model pembelajaran *Survey, Question, Read, Recite, Reflect, Review* dapat dijadikan salah satu alternatif bagi guru dalam melaksanakan pembelajaran di kelas.

Kata kunci: Model pembelajaran *Survey, Question, Read, Recite, Reflect, Review* (SQ4R), Kemampuan koneksi matematis, Model pembelajaran *Problem Based Learning, Self-Regulated Learning*.

## ABSTRACT

Esah Rindayani. (2017). *The Improvement of Mathematical Connection Skill and Self-Regulated Learning of Vocational High School toward Implementation of Survey, Question, Read, Recite, Reflect, Review (SQ4R) Learning Model.*

*The research was distributed by the importance of mathematical connection skill of student. This research aims to assess the implementation of Survey, Question, Read, Recite, Reflect, Review (SQ4R) learning model to improve student's mathematical connection skill and student's Self-Regulated Learning (SLR) toward implementation of SQ4R learning model. This research used a quasi-experimental methods. The research design used the design of control group pretest-posttest. The population are grade X students of SMK Nasional Bandung. The sample in this research are students of class X-TKJ as an experimental class and class X-MMD as a control group selected by purposive sampling.. Issues that are examined, namely improvement of student's mathematical connection skill as well as student's SRL toward learning mathematics with SQ4R learning model. The research instrumens used mathematical connection capability test and SRL scale questionnaire. The mathematical connection capability test for student tested in advance so it can be used in this research properly. Quantitative data analysis using a independent sample t-test technique, while the attitude scale data analysis must first be converted into quantitative data then analyzed using one sample t-test. The results showed that: the improvement of mathematical connection skill of student who received SQ4R learning model is better than students who received Problem Based learning model; the improvement of students' SRL who received SQ4R learning model is better than students who received Problem Based learning model. Thus SQ4R learning model can be used as an alternative for teachers in implementing the learning in the classroom.*

*Keyword:* Survey, Question, Read, Recite, Reflect, Review (SQ4R) learning model, Mathematical connection skill, Problem Based learning model, Self-Regulated Learning