

ABSTRAK

Risnawati : “Penerapan Model Pembelajaran *Formulate Share Listen Create* berbantuan Aplikasi *Educaplay* untuk Meningkatkan Kemampuan Pemahaman Konsep Matematis dan *Self efficacy*”

Penelitian ini bertujuan untuk: (1) mendeskripsikan keterlaksanaan pembelajaran menggunakan model *Formulate Share Listen Create* berbantuan aplikasi *Educaplay*; (2) menganalisis perbedaan peningkatan kemampuan pemahaman konsep matematis peserta didik yang menggunakan model *Formulate Share Listen Create* berbantuan *Educaplay* dengan pembelajaran konvensional; dan (3) menganalisis perbedaan *Self efficacy* peserta didik sebelum dan sesudah mengikuti pembelajaran menggunakan model *Formulate Share Listen Create* berbantuan aplikasi *Educaplay*. Penelitian ini menggunakan metode *quasi experiment* dengan desain *Nonequivalent Control Group Design* dan *One Group Pretest Posttest Design*. Sampel penelitian terdiri atas 56 peserta didik kelas X SMAS Yadika Sumedang yang dipilih menggunakan teknik *purposive sampling*. Instrumen penelitian meliputi lembar observasi, tes kemampuan pemahaman konsep matematis, dan angket *Self efficacy*. Data dianalisis menggunakan statistik deskriptif dan inferensial. Hasil penelitian menunjukkan bahwa: (1) keterlaksanaan pembelajaran menggunakan model *Formulate Share Listen Create* berbantuan *Educaplay* berada pada kategori sangat baik; (2) terdapat perbedaan peningkatan kemampuan pemahaman konsep matematis antara kelas eksperimen dan kelas kontrol, dengan rata-rata *N-Gain* sebesar 0,6843 pada kelas eksperimen dan 0,4064 pada kelas kontrol; dan (3) terdapat perbedaan *Self efficacy* peserta didik sebelum dan sesudah pembelajaran menggunakan model *Formulate Share Listen Create* berbantuan *Educaplay* sebesar -4,156. Dengan demikian, model *Formulate Share Listen Create* berbantuan aplikasi *Educaplay* efektif dalam meningkatkan kemampuan pemahaman konsep matematis dan *Self efficacy* peserta didik.

Kata Kunci: *Formulate Share Listen Create*, *Educaplay*, kemampuan pemahaman konsep matematis, *Self efficacy*.

ABSTRACT

Risnawati: “Penerapan Model Pembelajaran *Formulate Share Listen Create* berbantuan Aplikasi *Educaplay* untuk Meningkatkan Kemampuan Pemahaman Konsep Matematis dan *Self efficacy*”

*This study aimed to: (1) describe the implementation of learning using the *Formulate Share Listen Create* learning model assisted by the *Educaplay* application; (2) analyze the differences in the improvement of students' mathematical conceptual understanding between those taught using the *Formulate Share Listen Create* learning model assisted by *Educaplay* and those taught through conventional learning; and (3) analyze the differences in students' self-efficacy before and after participating in learning using the *Formulate Share Listen Create* learning model assisted by the *Educaplay* application. This study employed a quasi-experimental method using the *Nonequivalent Control Group Design* and the *One-Group Pretest–Posttest Design*. The sample consisted of 56 tenth-grade students of *SMAS Yadika Sumedang* selected through purposive sampling. The research instruments included an observation sheet, a mathematical conceptual understanding test, and a self efficacy questionnaire. The data were analyzed using descriptive and inferential statistics. The results showed that: (1) the implementation of the *Formulate Share Listen Create* learning model assisted by *Educaplay* was categorized as very good; (2) there was a significant difference in the improvement of students' mathematical conceptual understanding between the experimental and control groups, with an average *N-Gain* score of 0.6843 for the experimental group and 0.4064 for the control group; and (3) there was a significant difference in students' self-efficacy before and after learning using the *Formulate Share Listen Create* learning model assisted by *Educaplay*, with a *t-value* of -4.156. Therefore, the *Formulate Share Listen Create* learning model assisted by the *Educaplay* application was effective in improving students' mathematical conceptual understanding and self-efficacy.*

Keywords: *Formulate Share Listen Create, Educaplay, mathematical conceptual understanding, self efficacy.*