

ABSTRAK

Purnama Nuranisa D, (2022) **Analisis Kemampuan Komunikasi Matematis dan *Self-efficacy* Siswa dalam Implementasi Strategi Pembelajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT).**

Kemampuan komunikasi matematis merupakan hal yang penting dalam pembelajaran matematika, namun pada kenyataannya kemampuan komunikasi matematis di Indonesia tergolong rendah. Hal ini disebabkan kurangnya keyakinan diri siswa terhadap kemampuan yang dimilikinya. Untuk meningkatkan kemampuan komunikasi matematis dan *self-efficacy* diperlukan strategi pembelajaran yang efektif dan inovatif, salah satunya adalah strategi pembelajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT). Penelitian ini bertujuan untuk: (1) untuk mendeskripsikan kemampuan komunikasi matematis siswa dalam implementasi strategi pembelajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT); (2) untuk mendeskripsikan *self-efficacy* dalam implementasi strategi pembelajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT); serta (3) untuk mendeskripsikan kemampuan komunikasi matematis siswa ditinjau dari *self-efficacy*. Penelitian ini menggunakan pendekatan penelitian kualitatif dengan jenis penelitian studi kepustakaan (*library research*). Sumber data yang digunakan dalam penelitian ini adalah sumber data primer dan sumber data sekunder. Hasil penelitian yang dilakukan menunjukkan bahwa: (1) kemampuan komunikasi matematis mengalami peningkatan secara signifikan ketika pembelajarannya menggunakan strategi pembelajaran *Relating, Experiencing, Applying, Cooperating dan Transferring* (REACT) karena siswa ikut berperan aktif dan berpartisipasi dalam kegiatan pembelajaran; (2) strategi pembelajaran *Relating, Experiencing, Applying, Cooperating dan Transferring* (REACT) merupakan strategi pembelajaran yang efektif terhadap peningkatan *self-efficacy* siswa; (3) terdapat hubungan positif antara kemampuan komunikasi matematis dan *self-efficacy* siswa, semakin tinggi *self-efficacy* siswa semakin besar pengaruh terhadap kemampuan komunikasi matematis siswa, begitu pula sebaliknya semakin rendah *self-efficacy* siswa semakin sulit dalam kemampuan komunikasi matematis.

Kata Kunci: Kemampuan Komunikasi Matematis, *Self-efficacy*, Strategi Pembelajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT)

ABSTRACT

Purnama Nuranisa D, (2022) *Analysis of Student's Mathematical Communication Skill and Student's Self-efficacy in Implementation Learning Strategies of Relating, Experiencing, Applying, Cooperating, and Transferring (REACT).*

Mathematical communication skills are important in mathematics learning, but in reality mathematical communication skills in Indonesia are relatively low. This is due to the student's lack of confidence in their abilities. To improve mathematical communication skills and self-efficacy, effective and innovative learning strategies are needed, which is relating, experiencing, applying, cooperating, and transferring (REACT) learning strategies. This study aims to: (1) to describe students' mathematical communication skills in learning strategies of Relating, Experiencing, Applying, Cooperating, and Transferring (REACT); (2) to describe self-efficacy in learning strategies of Relating, Experiencing, Applying, Cooperating, and Transferring (REACT); and (3) to describe mathematical communication skills in terms of self-efficacy. This study uses qualitative research approach with type of library research. The data sources used in this study are primary data sources and secondary data sources. The results showed that: (1) mathematical communication skills improved significantly in using learning strategies of Relating, Experiencing, Applying, Cooperating and Transferring (REACT) because students play an active role and participate in learning activities; (2) learning strategies of Relating, Experiencing, Applying, Cooperating and Transferring (REACT) are effective to improving students' self-efficacy; (3) there is a positive relationship between the student's mathematical communication skills and self-efficacy, higher student's self-efficacy, greater influence on students' mathematical communication skills, and otherwise, lower students' self-efficacy, more difficult in their mathematical communication skills..

Keywords: Mathematical Communication Skills, Self-efficacy, Relating, Experiencing, Applying, Cooperating, and Transferring (REACT) Learning Strategies

ABSTRAK

Purnama Nuranisa D, (2022) **Analisa Kamampuan Komunikasi Matematis sarta *Self-efficacy* Siswa dina Implementasi Stratégi Pangajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT).**

Kamampuan komunikasi matematis mangrupikeun perkawis anu penting dina pangajaran matematika, nanging dina kanyataan na kamampuan komunikasi matematis di Indonesia kawilang rendah. Hal ieu disababkeun ku kurang percaya diri siswa kana kamampuhna. Pikeun ngaronjatkeun kamampuan komunikasi matematis sarta *self-efficacy*, diperlukeun stratégi pangajaran anu éféktif sarta inovatif, salah sahijina nya éta stratégi pangajaran *Relating, Experiencing, Applying, Cooperating, dan Transferring* (REACT). Ieu panalungtikan miboga tujuan pikeun: (1) ngadéskripsikeun kamampuh komunikasi matematis siswa dina ngalaksanakeun stratégi pangajaran *Relating, Experiencing, Applying, Cooperating, and Transfer* (REACT); (2) ngadéskripsikeun *self-efficacy* dina ngalaksanakeun stratégi pangajaran *Relating, Experiencing, Applying, Cooperating, and Transferring* (REACT); sarta (3) ngajéntrékeun kamampuan komunikasi matematis siswa dina jihat *self-efficacy*. Ieu panalungtikan ngagunakeun pamarekan panalungtikan kualitatif kalayan jenis panalungtikan pustaka. Sumber data anu digunakeun dina ieu panalungtikan nya éta sumber data primer sarta sumber data sekunder. Hasil panalungtikan anu dilaksanakeun nuduhkeun yén: (1) kamampuan komunikasi matematik ngaronjat sacara signifikan sabada diajar ngagunakeun stratégi pangajaran *Relating, Experiencing, Applying, Cooperating and Transferring* (REACT) lantaran siswa aktip sarta ilubiung dina kagiatan diajar; (2) Stratégi pangajaran *Relating, Experiencing, Applying, Cooperating and Transferring* (REACT) mangrupikeun stratégi pangajaran anu éféktif pikeun ngaronjatkeun *self-efficacy* siswa; (3) aya hubungan anu positip antara kamampuan komunikasi matematis siswa sarng *self-efficacy* siswa, lamun leuwih luhur *self-efficacy* siswa, leuwih gedé pangaruhna kana kamampuan komunikasi matematis siswa, kitu ogé sabalikna, rendahna kamampuh siswa dina *self-efficacy*. beuki hese dina kamampuan komunikasi matematisna.

Kecap Konci: Kamampuan Komunikasi Matematis, *Self-efficacy*, Stratégi pangajaran *Relating, Experiencing, Applying, Cooperating and Transferring* (REACT)