**ABSTRAK**

**PENGEMBANGAN MODUL BERBASIS PEMBELAJARAN STRATEGI REACT UNTUK MENINGKATKAN KEMAMPUAN PEMECAHAN MASALAH MATEMATIS PESERTA DIDIK**

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Penelitian pengembangan ini bertujuan untuk menghasilkan modul berbasis pembelajaran strategi REACT (*Relating, Experiencing, Applying, Cooperating And Transferring*) untuk meningkatkan kemampuan pemecahan masalah matematis peserta didik. Jenis penelitian yang dilakukan adalah *Research and Development* dengan menggunakan model ADDIE (*Analyze, Design, Develop, Implement, dan Evaluate*). Subjek dalam penelitian ini yaitu siswa kelas VIII SMP Negeri 9 Bandar Lampung Tahun Pelajaran 2021/2022. Rancangan penelitian yang digunakan dalam uji coba produk penelitian adalah *Pretest-Posttest Control Group Design.* Data penelitian diperoleh dari wawancara, pemberian angket, dan instrumen tes kemampuan pemecahan masalah matematis. Hasil penelitian menunjukkan bahwa modul berbasis strategi REACT yang dikembangkan valid berdasarkan ahli dengan rata – rata nilai 80%, praktis berdasarkan penilain peserta didik dan guru dengan nilai 83% dan 81%. Selain itu, hasil uji efektivitas modul berbasis pembelajaran strategi REACT termasuk dalam kategori sedang, jika dilihat dari nilai *gain* sebesar 0,50. Dengan demikian dapat disimpulkan bahwa modul berbasis pembelajaran strategi REACT yang dikembangkan valid, praktis, serta efektif untuk meningkatkan kemampuan pemecahan masalah matematis peserta didik.

Kata Kunci: Modul, REACT, Kemampuan Pemecahan Masalah.

**ABSTRACT**

**DEVELOPMENT OF MODUL BASED ON REACT STRATEGY LEARNING TO IMPROVE STUDENTS' MATHEMATICAL PROBLEM SOLVING ABILIY**

**By**

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This research of development aims to produce modules based on REACT (Relating, Experiencing, Applying, Cooperating And Transferring) learning strategies to improve students' mathematical probem solving ability. The type of research conducted was Research and Development by using the ADDIE model (Analyze, Design, Develop, Implement, and Evaluate). The subjects in this study was class VIII students of SMP Negeri 9 Bandar Lampung for the 2021/2022 academic year. The research design used in the research product trial was the Pretest-Posttest Control Group Design. The research data were obtained from interviews, questionnaires, and mathematical problem solving ability test instruments.The results showed that the developed REACT strategy-based module was valid based on experts with an average score of 80%, practical based on student and teacher assessments with scores of 83% and 81%. In addition, the results of the effectiveness test of the REACT strategy-based learning module are included in the medium category, when viewed from a gain value of 0.50. Thus it can be concluded that the developed REACT strategy learning-based module is valid, practical, and effective for improving students' mathematical problem solving abilities.

Keywords: Modul, REACT, Problem Solving Ability.