

## ABSTRAK

GHINA TSANIA ARSYA .2022. **PENGARUH MODEL PEMBELAJARAN *DOUBLE LOOP PROBLEM SOLVING* TERHADAP KEMAMPUAN PEMECAHAN MASALAH DAN KETERAMPILAN BERPIKIR KRITIS PESERTA DIDIK PADA MATERI KEANEKARAGAMAN HAYATI** (Studi eksperimen kelas X MIPA SMAN 4 Tasikmalaya Tahun Ajaran 2022/2023) Jurusan Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Siliwangi

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Kemampuan pemecahan masalah dan keterampilan berpikir kritis pada peserta didik perlu dikembangkan, dalam mengupayakan hal tersebut maka dalam kegiatan pembelajaran perlu dibarengi dengan model pembelajaran *double loop problem solving*. Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *double loop problem solving* terhadap kemampuan pemecahan masalah dan keterampilan berpikir kritis peserta didik pada materi keanekaragaman hayati di kelas X MIPA SMAN 4 Tasikmalaya tahun ajaran 2022/2023, dengan populasi seluruh kelas X MIPA yang terdiri dari 5 kelas dengan jumlah total 183 siswa. Sampel diambil menggunakan teknik *purposive sampling*, dan kelas terpilih dari kelas X MIPA 4 berjumlah 37 siswa dan X MIPA 5 berjumlah 37 siswa. Instrumen yang digunakan penelitian ini terdiri dari tes kemampuan pemecahan masalah sebanyak 10 pertanyaan, dan keterampilan berpikir kritis sebanyak 12 pertanyaan. Data diolah dengan melakukan uji prasyarat analisis berupa uji normalitas, uji homogenitas sedangkan uji hipotesis yang menggunakan uji *one way ANOVA*. Hasil penelitian menunjukkan bahwa secara simultan ada pengaruh model pembelajaran *double loop problem solving* terhadap kemampuan pemecahan masalah dan keterampilan berpikir kritis peserta didik pada materi keanekaragaman hayati di kelas X MIPA 4 SMAN 4 Tasikmalaya. Berdasarkan hasil penelitian, dapat disimpulkan bahwa terdapat pengaruh model pembelajaran *double loop problem solving* terhadap kemampuan pemecahan masalah dan keterampilan berpikir kritis peserta didik pada materi keanekaragaman hayati di kelas X MIPA SMAN 4 Tasikmalaya tahun ajaran 2022/2023

Kata kunci: Model pembelajaran *double loop problem solving*, kemampuan pemecahan masalah, keterampilan berpikir kritis dan keanekaragaman hayati

## ABSTRACT

GHINA TSANIA ARSYA .2022. *THE EFFECT OF DOUBLE LOOP PROBLEM SOLVING LEARNING MODEL ON PROBLEM SOLVING ABILITY AND CRITICAL THINKING SKILLS OF STUDENTS IN BIODIVERSITY MATERIALS* (Experimental study of class X MIPA SMAN 4 Tasikmalaya Academic Year 2022/2023) Department of Biology Education, Faculty of Teacher Training and Education, Siliwangi University

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*Problem solving abilities and critical thinking skills in students need to be developed, in pursuing this, learning activities need to be accompanied by a double loop problem solving learning model. This study aims to determine the effect of the double loop problem solving learning model on problem solving abilities and critical thinking skills of students on biodiversity material in class X MIPA SMAN 4 Tasikmalaya in the academic year 2022/2023, with a population of all class X MIPA consisting of 5 classes with a total of 183 students. Samples were taken using a purposive sampling technique, and the selected classes from class X MIPA 4 totaled 37 students and X MIPA 5 totaled 37 students. The instruments used in this study consisted of a 10-question problem-solving ability test and 12 questions of critical thinking skills. The data is processed by conducting analysis prerequisite tests in the form of a normality test, homogeneity test while the hypothesis test uses the one way ANOVA test. The results showed that simultaneously there was an effect of the double loop problem solving learning model on the problem solving abilities and critical thinking skills of students on biodiversity material in class X MIPA 4 SMAN 4 Tasikmalaya. Based on the results of the research, it can be concluded that there is an influence of the double loop problem solving learning model on the problem solving abilities and critical thinking skills of students on biodiversity material in class X MIPA SMAN 4 Tasikmalaya in the 2022/2023 academic year*

*Keywords: Double loop problem solving learning model, problem solving ability, critical thinking skills and biodiversity*