

# **Development of an Assessment Instrument Based on the Treffinger Learning Model to Measure Creative Thinking Skill and Physics Learning Independence of High School Students**

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## **ABSTRACT**

This study aims to develop an assessment instrument based on the Treffinger learning model to measure creative thinking skills and independent high school physics learning. The research design used in this study was a modified Wilson and Oriondo and Antonio model development research. Broadly speaking, the steps used to develop the instrument are (1) the test design stage consisting of: determining the test objectives, determining the competencies being tested, determining the material being tested, preparing the test grid, writing items, validating items, improving item and test assembly, as well as the preparation of scoring guidelines; (2) test trials consisting of: determination of trial subjects, implementation of trials, and analysis of test results data; and (3) assembly tests

The product produced in this study is an instrument for assessing creative thinking skills and independent learning physics. Indicators of the ability to think creatively in this study are fluent thinking, flexible thinking, original thinking, and elaboration ability (thinking in detail). Meanwhile, indicators of learning independence in this study include personal attributes, processes, and learning context. worth using. The learning independence test and questionnaire instruments were declared valid and reliable, (2) the increase in creative thinking skills in the experimental class obtained a difference in the average pretest and posttest scores of 34,500. The standard gain is 0.60 in the medium category. The increase in learning independence obtained an average difference of early and late independence of 14.087. The standard gain was 0.32 in the medium category.

*Kata Kunci: Treffinger learning model, creative thinking, independent learning*