

OVERCOMING LEARNING LOSS IN SCIENCE USING PjBL-BASED STEM FROM HOME LEARNING MODEL FOR SECONDORY SCHOOL STUDENT

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ABSTRACT

During the Covid-19 pandemic, the Indonesian government has implemented a curriculum for special conditions as stipulated in the Decree of the Minister of Education and Culture Number 719/P/2020 concerning Guidelines for Curriculum Implementation in Education Units in Special Conditions. However, this has not been able to overcome the learning loss, especially in science subjects. This study seeks to reduce science learning loss by applying the PjBL-based STEM learning model from home. The purpose of this study was to determine the effect of the PjBL-based STEM from home learning model on understanding concepts and critical thinking skills of junior high school students.

This research is a quasi experiment (quasi-experiment). This research was conducted in a junior high school in Bantul with a sampling technique that is cluster random sampling. The experimental class was treated in the form of science learning using a PjBL-based STEM from home learning model, while the control class used a scientific model of science learning. Data collection techniques in this study were test and non-test. The data collection instruments were questions about understanding concepts and critical thinking skills, as well as observation sheets for the implementation of learning. Before being used, the question has been validated using theoretical and empirical validity. The data analysis technique is in the form of anava mixed design, then Partial Eta Squared is seen to see which treatment has the most influence and how much influence it has on understanding concepts and critical thinking skills of junior high school students.

The results showed that the PjBL-based STEM from home learning model had an effect on understanding concepts and critical thinking skills of junior high school students

Kata Kunci: *Keyword: learning loss, STEM-PjBL, critical thinking, understanding concept*