

## INCREASED LEARNING OUTCOMES IN EFFECTIVE LEARNING MODELS APPLICATION ACCORDING TO THE PLOMP

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### Abstract

The study deals with a background of problems that still lack the ability of learners to receive learning because of invalid materials, impractical methods and ineffective material delivery. One way to overcome the problem is to change the learning model so that learners can receive learning well. The study aims to solve the problem of learners' learning methods and to improve the learning performance of learners with plomp study models. The study is done with a design design of learning, a plomp study model consisting of a preliminary research, phototyping phase, and enforcing phase with a valid, practical, and effective teaching device. This study is based on the development of the plomp study model with a sample of thirty students at the country's in 12 sinjai high school, which is an improvement in the study of islamic trainees, especially those being tested with islamic test analyses.

**Key words:** Plomp buyer model, Learning result, Learner

### Abstrak

*Kajian tersebut dilatar belakangi oleh permasalahan masih kurangnya kemampuan peserta didik dalam menerima pembelajaran karena materi yang tidak valid, metode yang tidak praktis dan penyampaian materi yang tidak efektif. Salah satu cara untuk mengatasi masalah tersebut adalah dengan mengubah model pembelajaran agar peserta didik dapat menerima pembelajaran dengan baik. Penelitian bertujuan untuk memecahkan permasalahan metode pembelajaran peserta didik dan untuk meningkatkan prestasi belajar peserta didik dengan model pembelajaran plomp study. Pembelajaran dilakukan dengan rancangan desain pembelajaran, model pembelajaran plomp study yang terdiri dari penelitian pleno, fase phototyping, dan fase enforcing dengan perangkat ajar yang valid, praktis, dan efektif. Kajian ini didasarkan pada pengembangan model plomp study dengan sampel tiga puluh siswa di SMA Negeri 12 Sinjai, yang merupakan peningkatan dalam pembelajaran santri terutama yang diuji dengan analisis tes keislaman.*

**Kata kunci:** Model pembeli plomp, Hasil belajar, Peserta didik

## 1. Introduction

Education is basically an effort made in developing the potential of self and character that every human being has. According to Sanjaya, there are several very important components of an education system, namely the curriculum because the curriculum not only formulates the goals that must be achieved so as to clarify the direction of education, but also provides an understanding of the learning experience that every student must have (Rerung et al., 2017).

According to Meyer in Trianto Model kaffah is defined as an object or concept used to present something. Something real and converted to a comprehensive form (Kokom Komalasari, 2017 According to Hamalik, Learning is a process of changing individual behavior through interaction with the environment. The process of changing behavior in a person cannot be seen but can be determined, whether a person has learned or not by comparing the conditions before and after the learning process takes place. (Farias et al., 2009). The learning model is a very important thing for educators in the learning process. Learning models are also very influential in the learning process because educators are able to deliver learning with various learning models in accordance with the material presented to students.

Soekamto stated that the learning model is a conceptual framework that describes a systematic procedure in organizing learning experiences to achieve certain learning goals (Lif Khoiru Ahmadi, 2011). In addition, the learning model can also be interpreted as a learning process in which there is a learning technique, learning method and learning strategy.

In this article, an analysis of the Plomp development model design is presented and a description of the quality test of the development results.

## 2. Methods

This study used a one shout case study design (one time data collection). In this method, researchers collect data once obtained from field records, validity tests, observations, questionnaires, and test results. The design of a one shout case study (one-time data collection) according to Suharsimi Arikunto can be described as follows (Suharsimi Arikunto, 2010):

Treatment	Post-Test
X	O

X : Application of project-based learning to train the scientific creativity of Class VII students of SMP Negeri 12 Sinjai.

O : The data obtained after the application of learning are in the form of data on student activities, the implementation of learning syntax, student responses, student learning outcomes, student projects, student scientific creativity.

## 3. Results and Discussion

The Plomp learning model is a learning model consisting of Preliminary research, Prototyping phase, and Assesment phase with the quality of valid, practical, and effective

learning tools (Rochmad, 2012). So that the learning model is able to be a solution in the learning process of students so that their achievements increase.

a. *Pleminary Research* (Preliminary Research Phase)

1) In this phase, researchers analyzed the fundamental problems that existed in the SMP Negeri 12 Sinjai school on the development of learning tools. Through this analysis, researchers can obtain various information about learning problems experienced by students. In addition, researchers also conducted interviews with educators regarding problems that occur in developing learning in the classroom. In this phase, researchers also conduct preliminary final analysis, curriculum analysis, student analysis and learning material analysis (Warsono & Harianto: 2014). Here's a detailed explanation of the phase:

2) Preliminary Analysis

In this analysis, researchers provide basic needs in developing learning tools. In this phase, an analysis of the theory of learning that is taking place in the classroom is also carried out. In addition, this phase not only provides for the needs used in developing learning but also provides the needs that researchers will use in analyzing in the classroom. Analisis Kurikulum. The final initial analysis provides the needs of learning tools that will be used in the analysis process in the classroom, both educators and researchers. In this phase, curriculum analysis has been carried out a theoretical analysis of learning tools in the classroom of SMP Negeri 12 Sinjai

3) Learner Analytics

In the analysis of students, researchers conduct a study of the characteristics of students with the development of learning designs and include the characteristics of cognitive development and the background of students

4) Learning Material Analysis

In this analysis, researchers are required to compile, select and detail relevantly the learning tools. The selection of learning tools must be in accordance with the cognitive level of students so that the goals and creativity of students can be analyzed properly. In addition, learning materials are also arranged systematically and in detail so that the learning process can run well and students are comfortable in following the entire series of learning processes in class. *Prototyping Phase* (Fase Pembuatan Prototype)

In the Prototyping phase, researchers made a learning device based on a learning project so that it could train the scientific creativity of students of SMP Negeri 12 Sinjai. Researchers in this phase require students to produce a prototyping. The steps in compiling learning tools are as follows (Dimiyati & Mudjiono, 2015) :

1) Drafting Lesson Plan

Lesson Plan is a learning tool plan carried out by educators before carrying out the learning process for students in order to achieve basic goals and competencies. In the preparation of the rpp, it must be structured and must be in accordance with the steps that have been implemented by the curriculum in force in the school of

SMP Negeri 12 Sinjai. The preparation of rpp in this phase is focused on making learning tools in schools based on a scientific learning project for students.

2). The preparation of student worksheets

The preparation of student worksheets aims as a component that helps students in approaching a problem to a concept. This students worksheet is also compiled as a source of learning support in the implementation of limited trials. In this study, students worksheet was used to assist educators in training students' skills to the fullest, especially in students' scientific creativity. Based on the results of the preparation of lesson plan tools and student worksheets for learning designs in schools based on scientific learning projects, it can train the scientific creativity of students of SMP Negeri 12 Sinjai. The preparation of the lesson plan and student worksheet device in the first stage will produce the first prototyping.

2) *Assesment Phase* (Fase Penilaian)

In this assesment phase, researchers do two things, namely the validity test for learning development and limited trials (Dimyati & Mudjiono, 2015).

1) Learning Toolkit Validation Test

Special validation of lesson plan is carried out by educational experts in schools. Meanwhile, students worksheet validation is carried out according to aspect reviews. Based on the validation results, a revision was made to prototype 1 to further compile prototype 2 which was used for the implementation of limited trials.

2) Limited Trial

Limited trials are conducted by going through limited-class trials. This is carried out with the aim of knowing the implementation and impact penggunaan learning tools in schools through scientific learning projects for students at SMP Negeri 12 Sinjai.

Limited trials were carried out with efforts to obtain the results of corrections, inputs and improvements to the results of prototype 1 and the preparation of prototype 2 in the development of learning tools in the field. To conduct this limited trial, the schedule has been consulted with subject educators in the school.

#### 4. Conclusion

The application of Nieveen's learning, namely the Plomp learning model with Preliminary research, Prototyping phase, and Assesment phase learning designs with the quality of valid, practical, and effective learning tools, can make it easier for educators and students to carry out the learning process. In addition, the Plomp model learning design is also able to motivate students in completing a learning project in school scientifically.

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