

Laila Nur Azizah. 2025. *Pengaruh Model Problem Based Learning Berbantuan Media Stellarium Untuk Meningkatkan Pemahaman Konsep Siswa SMP*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Wiwin Puspita Hadi

ABSTRAK

Tujuan penelitian ini yaitu untuk meningkatkan pemahaman konsep peserta didik di kelas eksperimen, untuk mengetahui ada/tidaknya perbedaan pemahaman konsep di kelas eksperimen dan kontrol, untuk mengetahui keterlaksanaan pembelajaran di kelas eksperimen, dan yang terakhir untuk mengetahui respons siswa terhadap pengaruh model *Problem Based Learning* berbantuan media *stellarium*. Penelitian ini dilakukan di SMPN 1 Labang. Jenis penelitian ini yaitu kuantitatif eksperimen, desain yang digunakan yaitu *Nonequivalent control group design*. Subjek yang digunakan yaitu peserta didik kelas VII yang menempuh mata pelajaran bumi dan tata surya. Teknik sampling yang digunakan yaitu random sampling. Teknik pengumpulan data yang digunakan berupa lembar observasi keterlaksanaan, angket respon, tes pemahaman konsep, dan dokumentasi. analisis data yang digunakan yaitu uji *N-Gain score*, uji prasyarat (normalitas dan homogenitas), uji T Sampel Bebas, Persentase Keterlaksanaan, dan Persentase Respons Siswa. Hasil penelitian ini yaitu: 1) Terjadi peningkatan pemahaman konsep peserta didik di kelas eksperimen dengan skor perolehan *N-Gain* nya sebesar 0,70 dengan kategori tinggi. 2) Terdapat perbedaan pemahaman konsep di kelas eksperimen dan kelas kontrol pada materi bumi dan tata surya dengan skor 0,000. 3) Keterlaksanaan pembelajaran di kelas eksperimen dengan persentase keterlaksanaan 96% dengan kategori sangat baik. 4) Respons peserta didik di kelas eksperimen yang menggunakan model *Problem Based Learning* berbantuan media *stellarium* memperoleh skor 92% dengan kategori sangat positif.

Kata kunci: *stellarium*, *model problem based learning*, pemahaman konsep siswa smp.

Laila Nur Azizah. 2025. *The Effect of Stellarium-Assisted Problem-Based Learning Model on Improving Junior High School Students' Conceptual Understanding*. Thesis, Science Education Study Program, Faculty of Education, Universitas of Trunojoyo Madura, Madura. Advisor: Wiwin Puspita Hadi

ABSTRACT

The purpose of this study was to improve students' conceptual understanding in the experimental class, to determine whether there were differences in conceptual understanding in the experimental and control classes, to determine the implementation of learning in the experimental class, and finally to determine students' responses to the influence of the Problem Based Learning model assisted by Stellarium media. This study was conducted at SMPN 1 Labang. This type of research is quantitative experiment, the design used is Nonequivalent control group design. The subjects used were grade VII students who took the earth and solar system subjects. The sampling technique used was random sampling. Data collection techniques used were implementation observation sheets, response questionnaires, conceptual understanding tests, and documentation. Data analysis used was the N-Gain score test, prerequisite tests (normality and homogeneity), Free Sample T test, Implementation Percentage, and Student Response Percentage. The results of this study were: 1) There was an increase in students' conceptual understanding in the experimental class with an N-Gain score of 0.70 in the high category. 2) There is a difference in understanding the concept in the experimental class and the control class on the material of the earth and the solar system with a score of 0.000. 3) The implementation of learning in the experimental class with a percentage of implementation of 96% with a very good category. 4) The response of students in the experimental class using the Problem Based Learning model assisted by Stellarium media obtained a score of 92% with a very positive category. **Keywords:** *stellarium, problem based learning model, junior high school students' conceptual understanding.*