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Analysis of The Use of Interactive Multimedia Android Thermodynamics to Reduce Student Misconceptions

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Abstract

This type of research is a qualitative descriptive research. And from the data obtained, the next step is to analyze the data. After analyzing or processing the data, this research continued to look for the percentage of misconceptions and identify other indications that could cause misconceptions in accordance with the research objectives. The object of research, is the concept of thermodynamics. The research was conducted by testing the concept through a misconception test. The data that has been collected is then presented in the instrument data table. In this study, the data collection technique was carried out by using a misconception test. The research instrument used in this study was a pre-test and a post-test related to misconceptions. This misconception analysis table is used to fill in the comparison of the results of the misconceptions at the beginning and at the end, so as to get more information about the findings of the misconceptions. The technique used in this data analysis is qualitative data technique. In this study, analysis was used to find the percentage of misconceptions and the completeness of textbook concepts based on the syllabus, and to find out whether there were other indications that could cause misconceptions. Based on the results of data analysis and discussion, it can be concluded that the overall misconceptions experienced by students in Thermodynamics lectures at the University of Muhammadiyah Makassar experienced a decrease in misconceptions after using the android media terminology, which was in the medium category, especially for the concept of Ideal Gas, Kinetic Theory of Gas, First Law of Gas. Thermodynamics, Second Law of Thermodynamics and Entropy.