

ABSTRACT

Suhardi, 2012. Improve the skills of questioning and student learning outcomes by implementing the 5E learning cycle model to study the mechanical properties of materials physics topics. Based on the observations made in SMK Negeri 3 Gorontalo in class X, see the lack of interaction between teachers and students in teaching and learning activities, students are shy and afraid to material that is poorly understood, and when given time to ask most students do not want to ask or express ideas. This study aims to improve the skills of asking questions and learning outcomes of students in class X subject TKJ 1 SMK Negeri 3 Gorontalo academic year 2011 to 2012 by using the 5E learning cycle model. This type of research is action research class (PTK) carried out much of the learning cycle II, respectively - each cycle consisting of: (1) planning the action. (2) implementation of the action, (3) monitoring and evaluation. (4) analysis and reflection. Successes and failures in the cycle I have been identified based on deficiencies - deficiencies and make improvements in cycle II. Research instrument in the form of essay tests, observation sheets improvements model of learning, observation sheets and teachers' activity sheet asks students observation skills. analytical techniques used to determine implemented stages of learning and achievement using the percentage. Researchers have carried out the study using a model based on the 5E learning cycle lesson plans. The results obtained that the 5E learning cycle model has a 93.73% improvements results of this study increased from 10 questions that tested only two students who did not complete the number of students 26 people. Thus questioning skills and student learning outcomes can be completed.

Key words: 5E learning cycle model. questioning skills, learning outcomes.