

Training on the implementation of scientific approach in biology by using real objects

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ABSTRACT

Abstract

The Indonesian new curriculum, namely the Curriculum of 2013, requires that students are actively learn to get knowledge by a consecutive processes such as observing, questioning, collecting data, analyzing data, and communicating the results. Teachers and students have difficulties in doing those processes, specifically in observing and questioning. The main cause of the problem is the teacher does not present real objects, instead of powerpoint picture. This makes students difficult in observing the objects because the main sense is the only eyes function to observe the object. This condition makes students difficult to ask questions. Therefore, the teachers are trained to use real objects, to show the problem, and to promote students in asking questions

The training is followed by 15 teachers from 15 schools in the district of Bantul. First the teachers are trained in the essence of Curriculum of 2013, the curricular objectives and goals, the teaching learning process, scientific approach through 5M, and the evaluation. The teachers then write lesson plans by using real objects, and followed by real teaching and learning in the classroom.

The results indicate that the teachers are able to use real objects in teaching process, the number of questions increase 20%, and the class shows enthusiasm in learning biology. There are three topics learned in the same way: diversity, fungi, and protists.

Kata Kunci: Keyword: curriculum, biology, learning, questioning