

TRAINING ON THE USE OF VIRTUAL LAB AND EXPERIMENTAL TOOLS FROM ENVIRONMENTAL MATERIALS FOR ELEMENTARY SCHOOL SCIENCE LEARNING BASED ON THE 2013 CURRICULUM FOR ELEMENTARY SCHOOL TEACHERS OF DISTRICT 02 BANGUNTAPAN, BANTUL REGENCY

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ABSTRACT

The PPM activity aims to (1) improve the ability of elementary school teachers in 02 Banguntapan of Bantul district in using virtual labs to support online science learning (2) increase the interest of elementary school teachers in the 02 Banguntapan of Bantul district to utilize objects and materials from the environment for science experiments.

The methods used for the training were demonstration and discussion of information. The activity was attended by 20 people, including elementary school supervisors, cluster leaders, and training participants, namely elementary school teachers for grades 4, 5, and 6 who are in cluster 02 Banguntapan, Bantul district. The training activities were conducted on Saturday, September 11, 2021, virtually using the Zoom application. Evaluation of training activities including evaluating the success of using virtual labs, interest in using environmental objects and materials for science experiments, attitudes towards training, and participant responses to the implementation of the training, which were obtained through observation during the training process and questionnaires through WAG after the training was completed.

The results of the evaluation of the training activities showed that (1) the training activities on the use of the Virtual Lab and experimental tools from environmental materials for elementary science learning had been carried out according to the plan, (2) the objectives of the training had been achieved, namely increasing the ability of trainees to use virtual labs and increasing interest to utilize objects and materials from the environment for science experiments, (3) the achievement of the skills and attitude aspects of the trainees in the good category, and (4) the trainees responded well to the implementation of the training. Participants hope that there will be face-to-face training for the manufacture of simple teaching aids and their use and training on the use of virtual labs using other applications to support online learning or hybrid learning in the future.

Kata Kunci: Virtual Lab, PhET Colorado, Simple Science Experiment Tool, Elementary School