

USE OF MODEL COOPERATIVE LEARNING TYPE MM (MAKE A  
MATCH) EQUIPPED MEDIA CANDLE IN IMPROVING STUDENT  
LEARNING RESULTS ON THE CONCEPT OF CELL ORGANELLES CLASS

XI

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Abstract

This study was conducted based on the background that shows the results of student learning SMA PGRI Rancaekek is still low against the concept of cell organelles. Student learning outcomes is lacking in the concept because the concept of cell organelles of cells of abstract students must use tools such as microscopes, images that support the understanding of the concept. The purpose of this research is to increase the students' understanding of the concept of cell organelles using cooperative learning model make a match media include wax. This study uses a pre-experimental design (nondesigns). Designs in this study design using one-group pretest-posttest design. The data obtained in this study is a pretest and posttest value data where such data must first be tested for feasibility, because the problem will be the measuring tool in the study. Instruments tested a total of 20 questions objectively and has four option answers. Based on the results of recapitulation, about 15 instruments are taken as a matter of 20 questions that valid to be used as a matter of pretest and posttest. Hypothesis testing is done with the intention to look for differences in grades of students after learning. Based on the calculation of the data can be seen pretest and posttest have  $t_{\text{count}} > t_{\text{table}}$  (0.01) that is  $12.63 > 2.75$ . Based on data from pretest and posttest learning outcome in the control concept can be seen that the results of the pretest has an average value of 42.25 and 74.6 posttest. This represents an increase learning outcomes with sesabar gain index of 0.53 (moderate).

Keywords: Learning Outcomes, the concept of cell organelles, Model cooperative make a match, candle Media.