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## **JURNAL PEMBELAJARAN FISIKA (JPF)**

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**PENERAPAN MODEL PEMBELAJARAN PENINGKATAN KEMAMPUAN  
BERPIKIR (MP PKB) DISERTAI METODE EKSPERIMEN  
PADA PEMBELAJARAN FISIKA DI SMP**

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***Abstract***

*The goals of this research were to determine the solving physics problem ability using Learning Model Improving Capacity to Think (LM ICT) accompanied by experiment method, examine the differences of physics achievement between using LM ICT accompanied by experiment method with using conventional model, and describe the retention of physics achievement using LM ICT accompanied by experiment method. The method of this research was true experiment by using post test control only design. The sample of this research was the students of eighth grade at Jember 6 Junior High School, that consists of two classes. One of the class was assigned randomly to the control group, and the other class was assigned to the experimental group. The experimental group treated by using LM ICT accompanied by experiment method whereas the control group used conventional model. The data of solving physics problem ability were collected by problem solving student worksheets whereas physics achievement were collected by test. The results of this research showed that (1) the level of solving physics problem ability using LM ICT accompanied by experiment method was good category. (2) There was significant differences of physics achievement between using LM ICT accompanied by experiment method with using conventional model, that showed with significant value 0,035 was smaller than  $\alpha = 0,05$ . This research also showed that (3) the retention of physics achievement using LM ICT accompanied by experiment method was 93,47% with very good category.*

**Keywords:** *Learning Model Improving Capacity to Think (LM ICT), experiment method, problem solving, physics achievement, retention.*