

**THE EFFECT OF INQUIRY-BASED MODEL COMBINED WITH
MULTIMEDIA TOWARDS STUDENTS COGNITIVE ACHIEVEMENT
IN ENVIRONMENTAL POLLUTION AND MANAGEMENT TOPIC
FOR GRADE X IN SMA NEGERI 1 PERBAUNGAN
ACADEMIC YEAR 2012/2013.**

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ABSTRACT

The aimed of this research is to know, is there any effect of the treatment of inquiry based-model combined with multimedia to the biology learning achievement on the case of topic of environmental pollution and management in SMA Negeri 1 Perbaungan in academic year 2012/2013.

Research involved two classes from 8 classes of total classes in grade X. Samples was X-1 as control class with traditional method and X-2 as experiment class treated with inquiry based-model combined with multimedia, both class consisted of 40 students. The data was collected by pre-test post-test in form of multiple choices, with total question are 20.

The result of the research showed that there is significant difference in student cognitive achievement score of students taught using the inquiry-based model combined with multimedia and those taught using the traditional method, $t_{\text{count}} (1.80) > t_{\text{table}} (1.73)$. While percentage increasing score in control class is 4.6%, while in experiment class is 10.8%, with percentage difference is 4.15%. Furthermore, based on percentage of students activity showed that student in experiment class is more active than control class. Otherwise, the anova result shows that even the inquiry based-model combined with multimedia have significant difference in student cognitive achievement score compare to traditional one, it is not affect on student cognitive achievement significantly, $F_{\text{count}} (3.2) < F_{\text{table}} (3.9)$.

Keywords: Inquiry model, multimedia, learning achievement, activity