**The Implementation of Index Card Match Model Using Various Media to Improve Students' Questioning- Answering Ability and Learning Outcomes of Ecosystem in Class X SMA Negeri 1 Berastagi (Academic Year 2011/ 2012)**

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## ABSTRACT

This classroom action research aims to improve student's questioning-answering ability and learning outcomes through the implementation of index card match model using various media on ecosystem topic in class X-2 SMA Negeri 1 Berastagi. It was conducted in four cycles consists of planning, implementation, observation and reflection steps. The sample is 30 students and is sampled purposively. Data were collected by using student's questioning-answering sheets, achievement tests, and observation sheets. Then, the data were analysed both quantitatively and qualitatively to show the improvement in each cycle. The result described the student's questioning-answering ability and was categorized into HOCS (*Higher order of cognitive skill*) (86.67 %). The classical completeness of student learning outcomes achieved in cycle-IV as (86.66 % ). Student's learning outcomes based on students ability to answer higher cognitive questions show improvement, there were (72.22 %) students are able to answer questions in analyzing, evaluating, and creating. Thus, the activity of student is categorized as fair (3.33%), active (30 %) and very active (66.67 % ) also describe the improvement in cycle-IV. It means that student's questioning-answering ability and learning outcomes were improved by implementing the index card match model using various media on Ecosystem topic in class X SMA Negeri 1 Berastagi academic year 2011/2012

*Keyword : Index card match model using various media, student's questioning-answering ability, Learning outcomes.*