

ABSTRACT

INCREASING OF SCIENTIFIC PROCESS SKILLS AND ACID BASE ACHIEVEMENT THROUGH STUDENT TEAMS ACHIEVEMENT DIVISION COOPERATIVE LEARNING AT SMA NEGERI 1 KLIREJO

**by
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This research aims to describe (1) lesson plan design; (2) learning process; (3) evaluation systems well; (4) increasing of student's scientific process skills; (5) increasing of acid base achievement through STAD type cooperative in learning model.

Method of reasearch used Classroom Action Research which is implemented into three cycles. Subject of reasearch are students of class XI science 2 and XI science 3. First cycle by implementation cooperative learning STAD type with experiment in Laboratory. Second cycle implementation cooperative learning STAD type using flash media. Third cycle using implementation cooperative learning STAD type with application in environment.

Conclusion of research are (1) lesson plan design was arranged on syntax: making group, delivering of purpose and motivating students, giving information, guiding study and group work, evaluating, giving quiz, and giving reward; (2) student activity achievement indicators at cycle III and teacher activity achieved at cycle II; (3) evaluation system was essay test by validity 0.630 (high), reliability of 0.71 (high), level difficulty (medium), and powes discrimination (good); (4) student's scientific process skills increase, 63,06% at cycle I , 72,91% at cycle II and 80,54 at cycle III; (5) student's achievement increase 62,20% at cycle I, 73.7% at cycle II and 81,93 at cycle III.

Key words: scientific process skills , STAD cooperative, achievement