

Strengthening Science and Mathematics Teachers' Didactics Competences in Yogyakarta City through Lesson Study

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ABSTRACT

This lesson study activity is to improve science and mathematics teachers ability on didactics that for all partner school. Instructional approach is selected based on theory of constructional social, i.e. scientific approach, cognitive load theory approach, and inquiry approach.

This lesson study activity involves 5 schools, some the school is junior high school and the rest is senior high schools. Before implementation, it is conducted a focus group discussion that followed by lectures, teachers, and priciples. Subject matter choosen consist of mathematics, biology, physics, chemistry, and science. Lectures and teachers are grouped based on the subject matter. Relevan to its charecteristics, lesson study activities are divided become three cycle, i.e. plan-do-see.

Final results show that teachers' didactical competence increased significantly as a concequancy from collaboration process beetwen lectures ang teachers intensively. After involving in lesson study process in three cycles, teachers revealed that their understanding about didactics become higher that before. The implication of this findings are lesson study should be speed out to others schools.

Kata Kunci: *Lesson study, didactics*