

## **Lesson Study: STEM Integration in Inquiry Settings in Physics Learning in Middle School**

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### ABSTRACT

This study aims to: 1) determine the increase in the professional competence of high school physics teachers in applying the STEM setting of inquiry approach to physics learning, and 2) describe the constraints of implementing STEM integration of setting inquiry on physics learning in secondary schools through lesson study by empowering the MGMP community Physics. This research was conducted with a lesson study setting which includes the planning (plan), implementation (do), and reflection (see) stages. The research involved a model teacher, namely a physics teacher at the Yogyakarta City SMTI. The results showed that: 1) the professional competence of high school physics teachers in applying the STEM setting of inquiry approach to physics learning increased, and 2) the unstructured practice activities in schools became an obstacle to the implementation of STEM integration setting of inquiry in physics learning in middle schools through lesson study with empowerment of the MGMP Physics community

Kata Kunci: *STEM, physics, school*