

# What Graduate Students (and the Rest of Us) Can Learn from Lesson Study

Amanda Alvine, Harvard University\*

Thomas W. Judson, Harvard University

Michael Schein, Harvard University

Teruyoshi Yoshida, Harvard University

## Abstract

We will present experiences from a lesson on related rates that we (three graduate students and an experienced faculty member) developed and taught to two freshman calculus courses. After each lesson, we held a debriefing session with a small group of students. This enabled us to explore a student perception of the lesson, evaluate the lesson's effectiveness, and to engage in an exchange of ideas about teaching and learning among faculty, graduate students, and undergraduate students in a non-evaluative setting. Focusing on a single lesson allowed us to explore teaching and learning issues in depth and realize the connections of related rates to the rest of the curriculum.

---

\* Amanda Alvine will be the speaker