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Measuring Teaching Quality of Secondary Mathematics and Science Residents: A Classroom Observation Framework

This study assesses the reliability of two observation rubrics, one in math and the other in science and documents how the rubric data were used to inform a teacher education program. Classroom observations are typically considered essential for assessing teaching practice, yet many popular observation frameworks while comprehensive in aim, do not appropriately capture key features of teaching valued by teacher education programs. Many of these tools do not attend to issues of equity, humanizing pedagogy and thus, social justice. We report on the development of two observation rubrics—secondary math and science—that embody the aims and values of our teacher education program, specifically, equity and humanizing pedagogy, and the results of our examination of the reliability of ratings of teaching practice generated using these rubrics. We discuss the various sources of measurement error and the implications for further developing and using the observation rubric in our program.

中学科学和数学的教学区量区量:区堂区察框架

本文図估数学和科学図堂図察図准的信度,以及図些数据如何被用来改善教図教育。図堂 図察一直被図図是図估教学図践的代表性方式。但是,図多眼下流行的図堂図察框架并没 有恰当的捕捉到教図教育図目所重図的教学特征,虽然図些框架旨在図合性教学。図多相 关図察手段没有关注公平図図、人性化教学以及社会正図。我図図図数学、科学两种図察図 准的开図図程。図两种図准体図了教図教育図目的目図和价図図:公平和人性化教学。同 図,我図図図図通図使用図些図察図准来図教図的教学図行図量的信度。我図図図算 図図的多种来源,和未来开図使用図堂図察図准的意図。