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A Century of Leadership in Mathematics and Its Teaching

Impactful Moments in Mathematics Teaching

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PREFACE

In an ideal learning environment, students, teachers, and teacher educators provide mutual support to achieve the common goal of student understanding. The Spring 2024 edition of the *Journal of Mathematics Education at Teachers College* presents three research papers that highlight both how teachers can best support their students and each other, through impactful moments in mathematics teaching. The two short reports explore the theme of impactful teaching moments through the lens of discrete mathematics, one using manipulatives in teaching probability and the other through a problem-based curriculum.

Salami investigates the impact of mathematical game play on student achievement, particularly as a way for teachers to bolster achievement for female students. Through the use of statistical analysis, this research examines the effectiveness of mathematical games for secondary school students in Nigeria, and the gender implications of the results.

Gates and Albert also explore impactful teaching moments, defining them as "mathematical magic." Through qualitative research methods, they illuminate not only the importance of teachers supporting students in these mathematical moments, but also the importance of educators supporting other educators in creating such moments through a mentoring model that pairs early career teachers with faculty mathematicians.

Enu and Ngcobo analyze pre-service mathematics teachers' knowledge and understanding of assessment literacy. Using interviews, the researchers highlight the challenges that pre-service mathematics teachers may face in understanding content knowledge and discuss the recommendations for teacher educators to help with these misconceptions.

Jimmy Giff
Emma LaPlace

Guest Editors