

Teacher collaboration, professional communities improve many elementary school students' math scores

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Many elementary students' math performance improves when their teachers collaborate, work in professional learning communities or do both, yet most students don't spend all of their elementary school years in these settings, a new study by UNC Charlotte researchers shows. The U.S. Department of Education funded the study, which the journal *Sociology of Education* recently published.

As <u>school</u> districts work to improve <u>math scores</u> and narrow racial and socioeconomic <u>achievement gaps</u>, many schools may have overlooked the impact of teacher collaboration and professional community on <u>student success</u>. Collaboration involves teachers working together to promote student achievement. A professional community exists when teachers feel a sense of belonging to a school, take pride in the school, understand and accept the school's mission, and are constantly learning strategies to improve student achievement.

The research shows that some schools have developed strong professional communities that strive to help <u>students</u> succeed, but have not fostered an environment where teachers are constantly collaborating, or working together, to plan their lessons and discuss student needs.

Other schools have cultivated collaborative planning and teaching, but have teachers who do not feel that they are part of a professional community. Few schools have effectively developed both teacher



collaboration and professional communities.

Some students benefit from a collaborative setting, while others benefit from a professional community, which means schools should focus on both to help a larger number of students, the study suggests.

"A troubling finding from our study is that the majority of students are not studying in schools where teachers work together and where teachers feel that they are part of professional learning communities," said study author Stephanie Moller, a faculty member in the Department of Sociology. "African American students are less likely than white and Hispanic students to study in these schools, despite the fact that they benefit the most from studying in such schools."

Moller's co-authors are Roslyn Mickelson, Ph.D.; Elizabeth Stearns, Ph.D.; Martha Bottia, Ph.D., and Neena Banerjee, all with UNC Charlotte.

Study findings suggest that school leaders have the power to enhance math test scores and reduce gaps in scores across groups of students by encouraging teaching environments where community and professional teamwork are valued and rewarded, the study authors said.

"The path toward developing these environments in our schools is not without obstacles," Moller said. "School leaders require a supportive district that provides resources for professional development while also allowing teachers time to work collaboratively. Leadership must also work to obtain teacher buy-in, as a forced community is rarely productive."

The current policy climate may make it difficult for school leaders to develop collaborative, professional communities in schools because the strategies for ensuring accountability have increased competition among



teachers and decreased trust and morale, the researchers said. "These strategies should be revisited to ensure that they promote and reward collaboration among <u>teachers</u>." Moller said.

The researchers used a sub-sample of 4,490 students, who attended public elementary schools between 1998 and 2003, from the U.S. Department of Education's nationally representative Early Childhood Longitudinal Study. This study focuses on grades K through 5 because most students who struggle in math at early ages continue to struggle in middle and high school. As years pass, the test score gaps that existed in the early grades widen, many studies have shown.

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