Texas State University Department of Mathematics Colloquium Friday, September 2, 2022 3:30pm on Zoom

Differentiating Instruction on Speed for Seventh Grade Students



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Abstract: In this talk, I will demonstrate how a research team differentiated mathematics instruction with 18 students in a seventh-grade classroom during an investigation of speed that was part of a larger unit on proportional reasoning. A classroom and Amy co-taught the 26-day unit. Students at three stages of units coordination were present in the classroom. Students across stages developed an understanding of how distance and time affected speed. However, when determining same speeds, students demonstrated differences related to their stages. The work of three focus students demonstrates these differences; all three students learned, but what they learned was not the same. Leveraging questions—questions that are based closely on students' work and prod students for a small advance—supported students to sustain challenges. Implications for teaching and research are considered.

Zoom Information: Meeting ID: 952 5357 9668 Passcode: 949504 link