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Recent technological advancements have unlocked an entirely new direction for education research. The flipped classroom is a new pedagogical method which employs asynchronous video lectures and practice problems as homework, and active, group-based problem solving activities in the classroom. It has become an increasingly popular pedagogical approach to teaching and learning. In this talk, we report on how a College Algebra class was taught in the Flipped Classroom format. Students' performance were compared with those of a similar class taught in the traditional format. This talk will also focus on the challenges of teaching in the flipped classroom format and implications for mathematics teaching and learning. (Received February 23, 2016)