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Many real-world applications of mathematics require the use of tools not often found in the standard classroom in order to search for information, manage data, solve problems and communicate findings. Mobile communication devices allow students to move beyond standard data acquisition methods and provide means for entire classes to engage in all aspects of real world problem solving. In this talk we will discuss curriculum based projects for introductory college mathematics courses (including College Algebra, Precalculus, and Applied Calculus) in which students use mobile communication devices to actively participate in experiments, collect data, and analyze results – all within one class period. (Received September 26, 2012)