

Abstract Submitted
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Online Tutorial Video Experiments NORMA CHASE, MCPHS University - Boston, School of Arts and Sciences — During Spring 2015, online tutorial video experiments provided students with valuable experience with the motion of charged particles in uniform electric fields. Firstly, the visual aspect of “movies” helped to bring the physics to life for many students, as did other simulation videos used as lecture demonstrations and homework. Further, students were required to produce lab reports clearly and completely demonstrating the reasoning behind all of their predictions. Online postings of Sample Data Sheets and Sample Predictions pages provided significant guidance to this end, and students were required to submit their video “lab reports” for rigorous grading. Based on preliminary data, it appears that the experience produced learning gains beyond that typically achieved by solving “standard” text book homework problems.

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