

Spotlight on: Mastering

How can Mastering help Physical Science students succeed?

How can Mastering engage students in and out of the classroom?

At [Miami Dade College](#), Mastering™ Chemistry was implemented in Gen Chem II to provide resources to help students develop study skills and improve learning. [Resources](#) included the Chemistry Primer, Dynamic Study Modules, and Adaptive Follow-Up. Students gave the following feedback:

"What I liked about Mastering was the relevance it had toward the material we experienced on the exams and in class."

"I like that it takes you step-by-step through how to solve a problem."

"It tells you hints throughout and the study module helped me work out problems when I didn't know."

How can Mastering be implemented to facilitate students coming to class prepared for active learning?

At [University of Utah](#), the instructor of an algebra-based physics course integrated class demonstrations and interactive Mastering resources both inside and outside the classroom. The correlation between Mastering pre-lecture homework — designed to ensure students come to class prepared — and in-class [Learning Catalytics](#) activities was moderately strong, and the majority of students had both high pre-lecture and Learning Catalytics scores (figure 1).

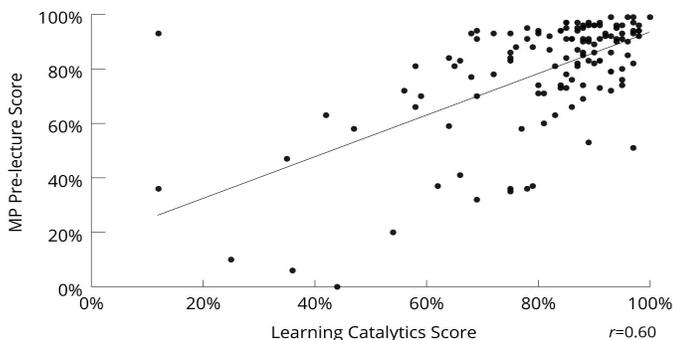


Figure 1. Correlation between MP Pre-lecture Score and Learning Catalytics Score, Fall 2018 ($n=130$)

How can Mastering be implemented to help students develop better problem-solving skills?

At [University of North Georgia](#), the instructor taught a flipped calculus-based physics course implementing Mastering to provide [diverse learning resources](#), enhance problem-solving skills, and minimize homework copying. The Mastering homework is designed to motivate students to do the problems on their own rather than google answers. Results show that students had a higher normalized change on the FCI compared to other sections and courses (figure 2).

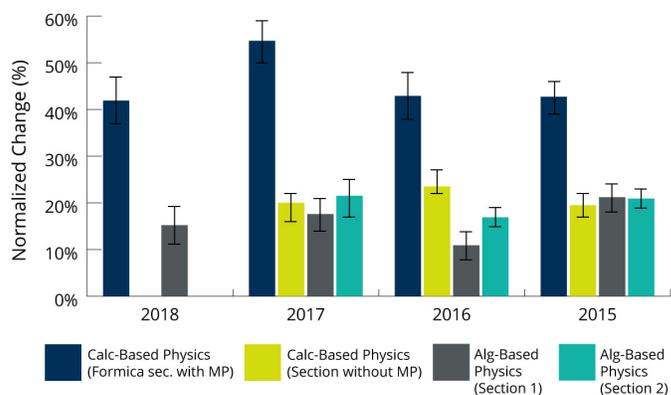


Figure 2. Normalized Change on Forced Concept Inventory, 2015–2018; [Refer to table 1 of online study for n-counts](#)

Additional information:

Learn more about implementing technology to enhance success:

[Planning your Technology Implementation](#)

Learn more about using Mastering and Learning Catalytics for active learning:

[Engaging Distracted Students in the Classroom](#)

Read additional Mastering studies at:

www.pearsonmastering.com/results

Contact your [Pearson rep.](#)