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Bringing sound pedagogy beyond the first and second year

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A substantial amount of the evidence-based pedagogies developed for lower level physics classrooms can be adapted to senior undergraduate and even graduate level classes. In this talk I will describe the use of in-class worksheets to foster deeper understanding and content proficiency in senior level electromagnetism, senior level special relativity, and graduate level classical mechanics courses. Preliminary evidence shows considerable improvement in student engagement in these higher-level courses. This presentation will focus on how these worksheets are constructed, and discuss how their efficacy could be explored beyond the anecdotal level.

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