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Use of healthy competition as active review sessions in electromagnetic courses.

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Review sessions, designed to provide students additional practice and support for summative assessments, help with prioritizing course material. With multitude of resources available online, the importance shifts to ensuring that students are engaged, inspired, aware of the level at which they will be tested, and able to assess their own knowledge. In courses that have problem solving skills as one of the course outcomes, the ability to so apply the knowledge is especially important.

We have explored an inclusion of various competitive setups that all emphasized learning and growth as the main goal, focused on the process and quality of work, gave everyone equal chance of winning and had no profound effect on students' grade in the course. While the context was always light-hearted and fun, the content of the questions was tightly related to the course material, allowing for self-evaluation and self-reflection, and had full intention of preparing students for the summative assessment.

All discussed activities were designed for electromagnetism courses intended for different audiences –from algebra-based service courses, through those intended for students in engineering, to senior physics majors, showing that the technique, supported by the appropriate content, can be employed at all learning levels.

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education

Keyword-2

assessment

Keyword-3

pedagogy

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