Varying Curricula to Meet Physics Students’ Learning Styles

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Through differentiation of physics curriculum, teachers are able to meet various students’ learning styles. Educators are able to differentiate the curriculum so that it builds on students’ strengths and addresses their weaknesses. An inventory can be used to assess the students’ abilities with certain concepts, and this inventory could be compiled from various assessment questions. Once teachers assess areas of weakness, they are able to make adjustments to curriculum and lesson plans to address these issues. Teaching techniques found in Just-in-time Teaching: Blending Active Learning with Web Technology will be used in the lesson planning and instruction of the course taught in this research. After the curriculum and lesson plans have been implemented and completed by students, educators can then administer to their students the inventory again, now post-instruction, to assess the effectiveness of their teaching techniques.

Information about the Author:
Since Gavin Grillo is majoring in both physics and secondary education, this research covers both areas of study. This research is both important and valuable to him as a future physics teacher because it will help him develop effective teaching strategies.

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