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Case Studies for Small-Group Student Collaboration in Large-Enrollment Introductory Physics Classes

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The goal of this project is to enhance students' collaboration with activities that reduce the reliance on multiple choice questions that are common in large-enrollment introductory physics classes, by providing students with new opportunities to collaborate on more open-ended scenarios, such as: mini-case studies. Course materials, in the form of mini-case studies were created. They were designed to target the most fundamental concepts of the first-year physics curriculum. These collaborative group activities are used to promote active learning and promote a sense of community in the partially flipped classroom. Originally the project was envisioned for the on-campus large class setting, however the COVID-19 pandemic and the challenges of engaging students during remote learning made the need for these types of activities even more pressing. Examples of the case studies activities will be demonstrated.

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