

1135-H1-3051      **Darci L. Kracht\*** (darci@math.kent.edu). *Using Collaborative Annotation to Flip a Trigonometry Course*. Preliminary report.

For many years I have grappled with the problem of getting students to engage with course material before coming to class. Students are generally poorly prepared to read mathematics and feel discouraged when asked to learn on their own. However, these are important skills to develop. Many of the methods I have tried, such as reading quizzes, worksheets, and video lectures, are labor intensive for the instructor. This semester I am testing a free collaborate annotation tool called Perusall, along with an open-source textbook in a section of Trigonometry. Students are given reading assignments to prepare for each class. They are required to annotate the electronic text with comments and questions. Students can see and respond to their classmates' annotations. The software automatically scores each student's annotations and creates a "Confusion Report" for the instructor, highlighting three or four of the most difficult topics. This opens up class time for group activities targeting the problem areas. I will report on students' and instructor's perceptions of the successes and failures of this approach. (Received September 26, 2017)