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Two-Stage Testing: A Method of Assessment to Improve Collaboration and Reduce Math Anxiety

In this presentation, we will discuss two-stage tests, an innovative assessment method where students initially complete their tests individually and then collaborate in pre-assigned groups to answer the same or similar questions. This approach has garnered significant student interest, as it seems to enhance engagement and improve learning outcomes.

We implemented this method in a second-year multivariable calculus course and a fourth-year course on polynomial equations and fields. The presentation will cover our methodology, observations, and survey results. Based on the survey results, students enjoyed the new format of the test and agreed that it helped clarify some concepts during the second stage. This is a joint work with Marina Tvalavadze.