

1135-VA-2452 **Jim Fowler** (fowler@math.osu.edu) and **Bart Snapp*** (snapp.14@osu.edu). *Ximera:
Measuring the effectiveness of an open-source interactive textbook.*

Ohio State's Department of Mathematics has begun a long-term project to improve student success and STEM retention. The mathematics department has undertaken multiple interventions (active learning, flipped lectures, open source textbooks), the effects of which are being viewed through many lenses (affective surveys, conceptual pre- and post-tests, and online event logs). This talk focuses on the online, open content that we have built, the platform we designed to deploy that content, and the data gathered through that online platform. (Received September 26, 2017)