

1125-G1-625      **Amanda Sutherland\*** (asuther1@su.edu) and **Beth Dodson** (bdodson94@su.edu). *Using Guided-Inquiry Activities to Promote Stronger Foundations in Introductory Statistics*. Preliminary report.

Inquiry-based learning (IBL) is a popular method for encouraging autonomous thinking. By combining IBL methods with group work founded in immersive content discovery through constructivist activities, we convert the instructor's role from lecturer to coordinator. This allows the educator to provide unobtrusive guidance, manage class time without manipulating a student thought process, and build a foundation for future in-depth analyses. These guided-inquiry activities provide students the opportunity to help each other through problem manipulation and actively contributing to a group, not only to create a sense of teamwork but also to build a strong knowledge base through the proven art of "learning by teaching". By testing these activities in classrooms, we are able to observe students' journey through the learning cycle. Using low-risk assessments and student testimonials, we begin to determine the effectiveness of these activities in helping students retain information and develop a broader understanding of the material. (Received September 08, 2016)