Supporting Teacher Enactment of the Probability and Statistics Standards

Through a partnership formed among the Regional Educational Laboratory-Southeast, Broward County Public Schools, and the American Statistical Association, the Supporting Teacher Enactment of the Probability and Statistics Standards (STEPSS) project will provide professional development and high-quality instructional materials to support teaching and learning of the statistics standards in seventh-grade classrooms in Broward County.

STEPSS includes two complementary components: four days of teacher professional development workshops in statistics, and implementation of 11 lessons designed to teach the Grade 7 statistics and probability standards created by the American Statistical Association (Bridging the Gap and Statistics Education Web).

Project evaluation will involve a randomized controlled trial research design. The study will investigate whether the STEPSS intervention increases students’ conceptual understanding in statistics as compared with practice as usual. The study will use the Instructional Quality Assessment to measure cognitive complexity of classroom tasks and the level of classroom discourse in seventh-grade classrooms as well as the Levels of Conceptual Understanding of Statistics (LOCUS) assessment to measure seventh-grade students’ conceptual understanding in statistics.