1125-VQ-489 **Umesh P Nagarkatte*** (unagarkatte@yahoo.com), Department of Mathematics, Office L05H, Medgar Evers College, City University of New York, Brooklyn, NY 11225. *Abstract: Adapting the Singapore Problem Framework to College Level – Performance Report Presenters: Drs. Umesh Nagarkatte, Joshua Berenbom.*

Singapore Mathematics ranks first in the world in the Trends in International Mathematics and Science (TIMSS) studies. Adapting the Singapore Mathematics Problem Solving Framework to college level, we have revamped Prealgebra, Elementary Algebra and College Algebra & Trigonometry. This effort gave rise to writing three textbooks which involve an innovative set of word problems based on the "Singapore Model Method." The Framework is represented in a pentagon of interrelated components: Concepts, Skills, Processes, Metacognition, and Attitudes. The "Method" uses rectangular models that analyze word problems to teach students the mechanics involved. We also approach each concept numerically, graphically and algebraically integrating technology. The five components and the approach address diverse learning styles, lead to deeper understanding and prepare students for Calculus. We also considered students' objectives that address difficulties logically in each topic. We then connect these objectives as a story and solve the problems in the discussion. The adaptation has been tested for three years and is observed to increase passing rates in the three courses. We present the data collected. (Received September 06, 2016)