

# Using System Dynamics and Systems Thinking (SD/ST) Tools and Learning Strategies to Build Science, Technology, Engineering, and Math Excellence

One of the hardest areas of the STEM curriculum and, in fact, all curriculum, is creating the context for students to gain experience and practice in the process of critical thinking. The utilization of SD/ST offers a unique methodology for addressing these higher-order thinking skills in a way that creates a framework to gain knowledge, as well as the tools to communicate thought. SD/ST offers an integrated way of thinking, in practical and useful ways, about the systems that surround us, and how they change over time.

■ Science, Technology, Engineering, and Mathematics Learning Goals

■ System Dynamics and Systems Thinking Tools and Learning Strategies

