From SIMIODE to GAIMME, modeling activities for the classroom are popping up everywhere. However, even the most-detailed, best-intentioned classroom materials suffer from a fatal flaw that almost always prevents a simple as-is adoption: every classroom is unique. Each group of students brings their own personalities, each instructor has his or her own style and comfort zone, and each syllabus has its own learning objectives unique to the needs of the institution. In this presentation, we, as two instructors, will discuss how we’ve been able to take the same modeling activity and adapt it to best fit our individual teaching styles and our courses’ learning objectives. During the presentation, we will also guide the audience through a thought-process designed to aid in selecting and adapting materials. (Received August 30, 2016)