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Modeling in Class - LSD, Falling Water, and Yeast.

We describe three Modeling Scenarios, their development, and how they can be effectively used to motivate and teach differential equations in context. Each of these activities involve the use and/or acquisition of data and the full modeling cycling from assumptions and building differential equation models to parameter estimation and model validation. All are readily available at www.simiode.org. (Received August 26, 2020)