John T. Sieben* (jsieben@tlu.edu), Texas Lutheran University, 1000 West Court St., Seguin, TX 78155. Creating and using videos in support of modeling in differential equations course work. Videos can be a great aid to teaching and motivating students in differential equations. Our focus is on modeling and often a video can do a better job of clarifying the model than can text and static images. Another use of video in the modeling first approach is to allow students to gather data without having to physically carry out experiments. For example, a video might show a tank leaking water into a graduated cylinder next to a stopwatch showing the elapsed time. The students collect the data by starting and stopping a video and recording time and water remaining. They get their data but don’t have to find a way to set up the physical experiment. Several examples will be given in the presentation. Finally, there are several tools for modelers that are video based and are now available. One example is an application called Video Physics. Applications of Video Physics will be presented. Not so many years ago videos were expensive and difficult to create, but not so today. In this talk the author’s recommendations for best tools and practices will be explored. (Received August 26, 2016)