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Julie Barnes* (jbarnes@email.wcu.edu). *Mathematical visualization using Wikki Stix, yarn, or pipe cleaners.* Preliminary report.

In this talk, we discuss using hands-on class activities involving Wikki Stix, yarn, or pipe cleaners to help students more deeply understand topics from a variety of undergraduate mathematics courses. Examples include physically acting out function transformations, using properties of derivatives to graph associated functions, and dynamically demonstrating the epsilon-delta definition of continuity. In all cases we look at logistical considerations and observed benefits from using these activities. (Received August 17, 2017)