LessonSketch

The Common Core State Standards for Mathematical Practice #2 states that students should learn to "reason abstractly and quantitatively". In this module, participants will have the opportunity to engage with an instructional scenario drawn from the secondary algebra curriculum. Specifically, participants will observe, annotate, and read other participants' annotations of a scenario in which students are working on finding the value of trigonometric functions. In the scenario, students attempt to exercise their ability to "decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved," in an attempt to determine the appropriateness of the values they have calculated. After considering various ways the teacher could support SMP #2, participants will have the opportunity to try implementing the SMP with their own students and receive feedback from an online facilitator.

