

1154-VI-1009 **Jenna P. Carpenter*** (carpenter@campbell.edu), Po Box 115, Buies Creek, NC 27506. *Using Coded Messages to Teach One-to-One and Inverse Functions.*

Students in college algebra and precalculus often struggle to grasp the concepts of one-to-one and inverse functions. Introducing these concepts in the context of designing a scheme to code and de-code messages taps into an intuitive framework in which both of these concepts are clear. Used as a running theme throughout the lesson, with a coding assignment for homework, greatly improves both student mastery of and interest in these topics. (Received September 12, 2019)