***Lesson created by:*** *Christye Johnson and Corey Carter-Dekalb County Schools*

**Materials: Pico Cricket kits, Pico Cricket placemats, pen, paper, and computer**

**Learning Objectives: Input/Output Devices, Programming, Hardware standards, Variance, Touch sensors**

**Extension Activity: Adding Loops**

**Estimated Time: 90 mins**

Students will be divided into groups of threes.

Students will create their own electronic Pico Cricket (Hearing vs. Seeing) according to the provided placemat.

Students will alternate roles (Recorder (records data), Reactor (reacts to light/sound), Programmer (runs the game). Using the Pico crickets Hearing vs. Seeing Reaction game, they will record in milliseconds how fast they react to both sound and light at least 5 times each. Students will create a MS Excel spreadsheet to record the data in their spreadsheet. Each student will insert formulas that will calculate each of their mean, median, and mode.