Activity Title: Left- or Right-Handed		
Description	**Instructor Notes**	**Slides/Handouts/Files**
The students will experiment to decide whether their peers are left- or right-handed.	Students will repeatedly write a letter and record the number of times that it can be repeated in 30 seconds. The experiment will be repeated with the other hand. After the data has been collected from each student , the information will be stored in lists, plotted, and examined for trends. Students will become familiar with using lists and plotting data. The meaning of the plotted points will be investigated and compared with the y = x graph. The students will individually collect the data (with the cooperation of the teacher who will time the 30 seconds). After each person has completed the experiment with each hand, the data for the class will be displayed on an overhead or the board so that the students can enter the information in the lists. The activity should help the students understand the information that the plot can give them. They are then asked to devise an experiment to decide whether a person is right- or left-footed.	Timing device Display for collected data

Participant Discussion

1. What is the information given by the plot?
2. Can you use the plot to decide who might be right-handed, left-handed, or ambidextrous?
3. What state and national standards does this activity address?
4. How does the use of the calculator enhance the activity?
5. How could you design an activity that would help decide whether a student is left-footed or right-footed?

References: Cynthia Lanius. http://math.rice.edu/~lanius/Algebra/rightleft.html

http://ritter.tea.state.tx.us/math/training/materials/MTR/9-12/lessons/algebra1_5.pdf: