How Much Water Can Abe Hold
Teacher Notes

1. Each student pair will need a penny, eye dropper or pipette, paper towel.
   a. Using a "Quick Poll" have each student guess how many drops of water will fit on the face of a penny.
   b. Show poll results and have students create a Stem and Leaf plot of the guesses
   c. Have students do the experiment (#3 on worksheet)
   d. Load Activity Center settings: drop.act – File – Load – Load Activity settings – start activity
   e. When all students have gathered their actual drops, use Activity Center to collect estimated drops (edrop) list and actual drops (adrop) list.
2. When students log into Navigator send:
   a. Edrop & Adrop Lists(Will be under "collect" folder in class)

3. Working with the lists:
   a. Put "Adrop" and "Edrop" into list screen
      1. SetUpEditor
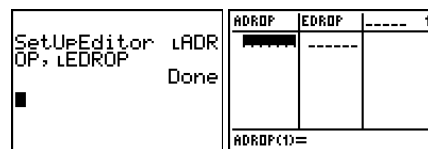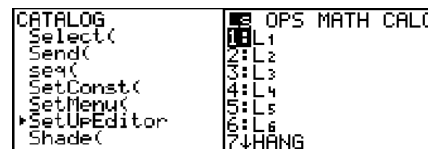
         -In "Home" screen

         -[2nd][PRGM] - arrow down to SetUpEditor

         -[2nd][LIST] - Arrow down to Adrop [ENTER]

         -comma (next to #4)

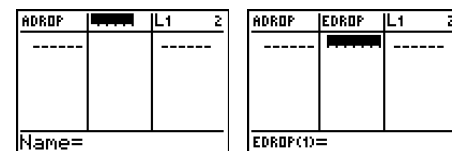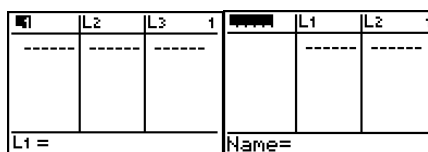   -[2nd][LIST] - Arrow down to Edrop [ENTER]

      OR

      2. List Screen

         -[LIST] - arrow up to name

         - [2nd][DEL] - to insert a new list

         - [2nd][LIST] - Arrow down to Adrop [ENTER][ENTER]

         -Repeat steps 2 & 3 to get Edrop

b. Arrange "Adrop" list from smallest to largest (Remember Edrop must tag along)

-Go to Home screen

- 2nd LIST OPS – choose 1: SORTA(

-Put in Adrop,Edrop lists as before

c. Do a Navigator Screen Capture to make sure everyone is on the same page.

4. Have students do #4 & #5 on the worksheet
   a. Do a quick poll for Median
   b. Do a quick poll for Quartile 1
   c. Do a quick poll for Quartile 3
   d. Discuss results to make sure all students are finding them correctly

5. Create a Box & Whisker plot
   a. 2nd Y= (plot) - #1
   b. Plot ON – choose the box & whisker graph – put ADROP in XLIST
   c. Repeat to put EDROP in plot 2
   d. Do ZOOM Stat

How Much Water Can Abe Hold?

1. Guess how many drops of water will fit on the face of a penny: _____

2. Create a Stem and Leaf plot of the classes guess.

3. **_Experiment:_** Using an eye dropper count how many drops of water will fit on the FACE of a penny. (Note: The drop that overflows the penny is not counted.)

4. Create a Stem & Leaf plot of the class' actual data.

5. Find the following:
   a. Median   _____
   b. Quartile 1   _____
   c. Quartile 3   _____

6. Create a Box a Whisker plot.